

Manufacturers Record

Exponent America



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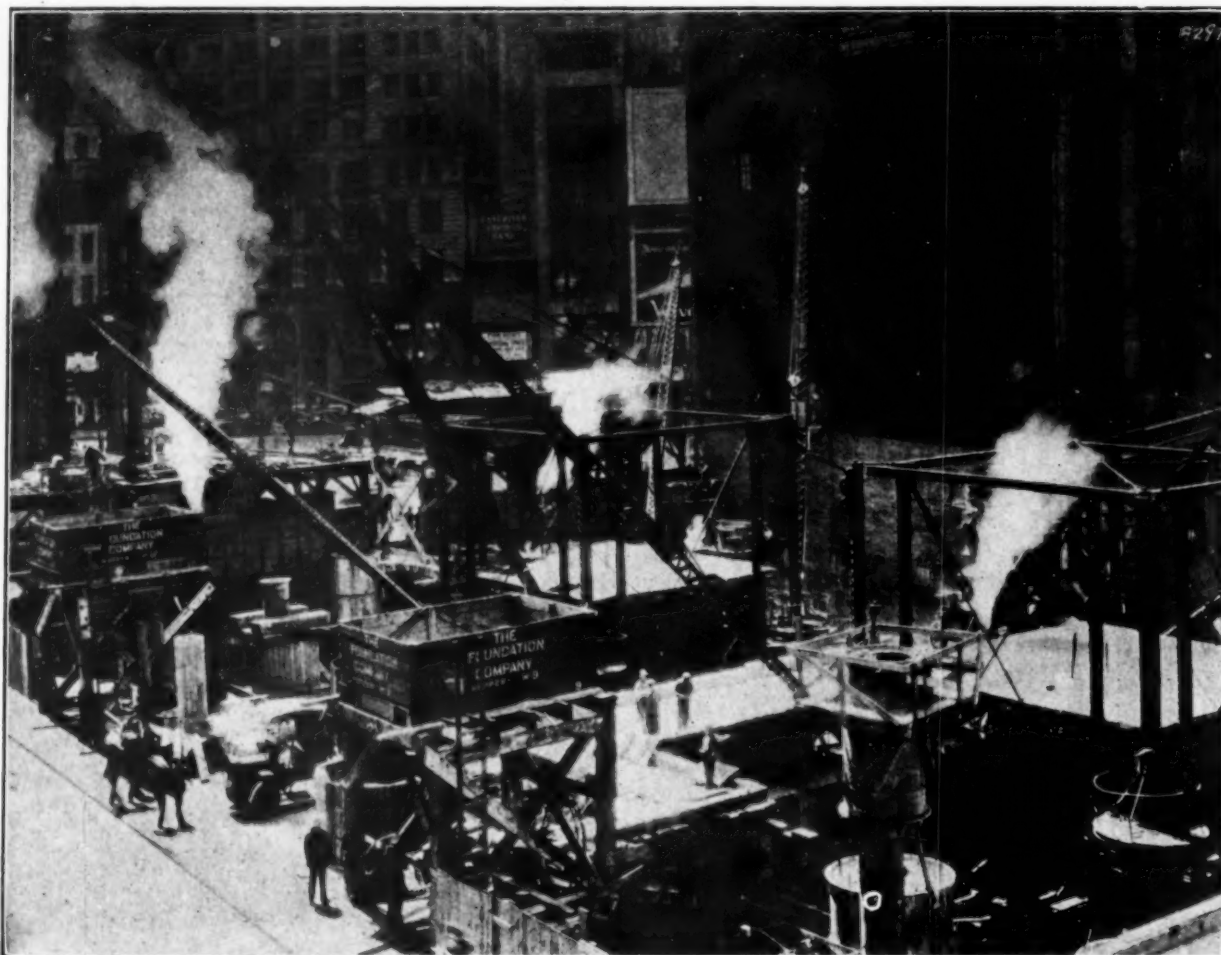
Bishops and Other Ministers Tell Why They Did or Didn't Sign the Letter About Cotton Mill Villages.

In reply to a letter from the Manufacturers Record asking the bishops and other ministers who signed the recent circular letter about cotton mill villages as to who originated this movement and who wrote the letter which they signed and whether they personally knew anything about the mill villages of the South, we are publishing a number of very interesting letters from the signers who have thus far responded to our request. Some of those who have replied have expressed their appreciation of the courteous way in which the questionnaire was put to them. Some, however, indicated that they did not see just why we had called upon them for replies and although a stamped envelope was enclosed, a good many have not yet given any answer to our question. Possibly their replies will come along a little later.

It develops that the whole scheme originated with an official of the Federal Council of the Churches of Christ in America and was put out through Bishop Cannon and that to many ministers of the South urgent second letters were sent asking for their signatures, and that in some cases telegrams were sent asking for signatures and offering to prepay replies.

Some Southern ministers wrote expressing very strong opposition to the circular but those who were responsible for putting out the circular letter did not give the public the benefit of these letters in opposition to the movement.

The scheme was foisted upon Bishop Cannon and upon other Southern ministers by an outsider in an organization which is more or less identified with many Socialistic, Communistic and Bolshevistic teachings in this country. The discussion in this issue of the subject by many of these signers and by one or two who did not sign will be found extremely interesting and illuminating. This circular letter dealing with a great business and economic question written by a rank outsider, foisted upon a number of bishops and other ministers, some of whom have never come in personal touch with the problem, is a sad illustration of the ease with which many people can be induced to sign petitions, the purpose of which they themselves do not fully understand, and often they do not know the motives of those who pull the strings for some ulterior purpose of their own.



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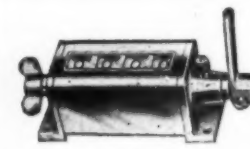
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BALTIMORE, APRIL 28, 1927.

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Agricultural and Industrial Wages As Bearing on Farm Life.

R. W. MORRISON, a leading business man of San Antonio, Texas, who has given much study to the question of farm labor, in a letter to the **MANUFACTURERS RECORD** in reply to one asking for his views on certain phases of agricultural and industrial labor, writes as follows:

"Careful consideration given to the question of Americanism has led me to the conclusion that there are very few white races of people who do not become, at heart, American citizens after a few years spent in the agricultural areas of the United States, while exactly the reverse is true when the same people become inhabitants of our great industrial centers.

"The plan suggested in the article which I sent you under date of February 28, of actually stopping all further immigration to the United States except people who were accustomed to living on the soil and who came to the United States with the avowed purpose of living on the soil, would remove one of the greatest dangers confronting our business prosperity by providing the farmers of the United States with a means of reducing the cost of production to a point which would enable them to continue competing with the other agricultural areas of the world in the production of foodstuffs, and at the same time the sending of these immigrants to the soil would relieve the industrial centers from the necessity of absorbing the hundreds of thousands of raw immigrants arriving annually.

"We must maintain our present comparatively high wage scale and we must continue to develop agriculture if the country as a whole is to continue to prosper. Lowering of wages in industrial centers will not increase general prosperity. If an evidence of this fact is required, compare the prosperity of Guadalajara, Mexico, and the prosperity of San Antonio, Texas, which communities have about an equal population, but the gross business in any line in Guadalajara will be found to be only about one-fifth or less than the same line of business in San Antonio, and the wages paid in Guadalajara in any particular line of industry will be found to bear just about the same relations as the wages paid in San Antonio. Therefore, let us hold our wage scale at least as high as it is at present in the industrial centers, at the same time providing the producers of foodstuffs with a means of competing in the markets of the world, and at the same time maintaining a cost of living in the United States that will permit dwellers in industrial centers to continue or to improve their present plane of living."

The questions raised by Mr. Morrison are extremely interesting. They demand careful study of the people of the country. It is universally recognized that there is great hardship in agriculture, particularly by reason of the scarcity and high prices of labor as compared with former years. That point Mr. Morrison makes very clear. He feels, however, that there should be a lower standard of wages for agriculture, while heartily approving high wages for industrial workers.

Is this feasible? Can we hold on the farms low-priced labor while industrial interests are bidding high wages for workmen for practically all classes of labor in manufactur-

ing interests and even in highway building and kindred activities? There is a certain degree of independence and freedom in farm work which does not prevail in industry. To many people there is a charm in farm life not possessed by industrial work, but the number is not sufficiently great to hold on the farms a full supply of labor at low wages when industrial and railroad interests are competing for the same labor at high wages.

Moreover, is it best for the country as a whole that farm labor should be paid low wages? That was the rule for many years in the South in the employment of negro labor, but low wages of that kind do not tend to ennoble the farm laborer nor enable him to surround his family with the ordinary comforts of life and to give his children larger opportunities.

Has not the South really been handicapped by the low wages paid to negroes in former years when their very presence and the low rate of wages made the world feel that cotton ought to be raised practically on the basis of slave labor? Have not the low wages paid to negroes on the farms tended to hold down to an unprofitable extent all other lines of wages in the South? No country can grow rich on low wages. The employing class may accumulate wealth on that basis, but the country as a whole cannot prosper except at a living rate of wage which gives to the farm laborer, as well as to the industrial worker, wages adequate to lift his family out of the degradation and ruts of former years.

Low wages, whether on the farm or in the factory, lessen the consuming power of the country, lessen the ambitions of the people for bettering their living conditions, and tend to a spirit of unrest and bolshevistic activities. Must we not find some way by which agricultural work can be carried on largely by machinery to the lessening of the manual labor required in former years?

In acknowledging the receipt of Mr. Morrison's letter some questions were raised on how to bring about the conditions as to farm wages and factory wages which he suggested and requesting the privilege of publishing his letter. In reply Mr. Morrison wrote:

"My letter to you of March 29 was not written with the idea that it would be sufficiently comprehensive to make it worth reading, except when considered in connection with the statements in the article I sent you under date of February 28, together with the opinions expressed in your letter to me of March 1. If you wish to use any part of my letter, you are quite at liberty to do so.

"You are, I am persuaded, quite logical in raising the question as to whether or not we can 'keep low-price labor on farms while the city is calling for every able-bodied man at fairly high-price wages.' My understanding is there has been for many years in the United States a steady drift of

population from the country to the cities, and so long as the inequality in wages prevails this drift will and should unquestionably continue; however, it is my feeling that, from every conceivable standpoint, it would be far better to have our raw immigrants fitted into our scheme of things by first being placed upon the soil and there absorbing American ideas, rather than being plunged directly into the human melting pots of our industrial centers where the chances are against their absorbing the best American ideals.

"Most humans are creatures of environment, and the probable success of the plan suggested, sending our immigrants direct to the soil, is due to the fact that the immigrants themselves would be people accustomed to living on the soil and unaccustomed to living in industrial centers; therefore, their movement from the agricultural areas to the cities would at least be very considerably retarded by their own feelings and desires to live on the soil."

WHERE MAGIC LIES IN RESEARCH.

THE Pacific Mills recently published an advertisement which, besides attaining its definite objective, should also serve a broad general purpose in enlarging the very inadequate public conception of the scope of that lately popular subject of discussion—research. The advertisement read as follows:

"IT ALL HUNG ON A THREAD.

"In making cloth, when a thread breaks the loom stops. If a way could be found to minimize the breakage, then the output would be increased and costs lowered.

"Pacific Mills made this problem the subject of scientific research and succeeded in spinning thread that was more even in size, twist and strength. The results were interesting.

"As thread broke less often, the mill operative was able to produce more, which increased wages yet decreased costs. But even thread made better cloth. Hence, while cutting costs and raising wages, the quality of the product was improved. So what hung on a thread was benefit to mill, worker and consumer.

"This is but one example of practical results that Pacific Mills is getting by applying research to all of its activities from buying raw material to marketing the finished fabric." (Italic ours.)

This advertisement illustrates two important facts that American business seems painfully slow in realizing. First, the application of research is not limited to chemical and electrical processes or products; it is applicable to all lines of industry. Second, while thoroughgoing scientific research costs money, it pays dividends in saving of cost and improvement of product.

It would be difficult, if not impossible, to find a manufactured article on the market today that is neither directly nor indirectly dependent upon research. It would be easy to name a long list of industries created wholly by research, and maintained in health and prosperity by ceaseless continuation of research in efforts at improvement of one sort or another. The automobile is a conspicuous example of this truth.

It would be equally easy to point to several industries once large and flourishing, now in bad shape or wholly defunct, solely because they never caught a vision of the value of research. The American naval stores industry is a fair example. Research in other lines created competitive products which, for a time, threatened to drive the industry out of existence; research now under way on a small scale, by finding better methods of cultivating pine trees, of chipping them, of refining their products and by finding new uses for those products, promises to rejuvenate that industry from bottom to top and re-establish it on at least as firm a footing as it ever had in its palmiest days.

There is no magic about the methods of research, but its results are magical. American business must more fully realize its potentialities, and more vigorously grasp and use them.

GERMANY MAKES AMMONIA AND OIL FROM LIGNITE; ALSO CONCENTRATED FERTILIZER.

THE representative of the Department of Commerce in Berlin sends an interesting description of the vast new works being built by the German Dye Trust in connection with its Leunawerke nitrogen-fixation plant. They are employing 30,000 men on a new plant for making petroleum and ammonia from lignite or waste coal and a new fertilizer, "Nitrophoska." The first unit plant for oil from coal will probably start production at once.

The process was invented by Dr. Bergius of Heidelberg. He is said to have sold his rights in Germany to this company. The plant is to hydrogenate the lignite under pressure and temperature to produce the substitute petroleum from which these fractions can be obtained by distillation. Dr. Bergius states that the domestic production of the value of \$42,000,000 of synthetic petroleum, which is about the amount that Germany imports annually, would require 4,000,000 tons of lignite as raw material. He gives the following estimate of the cost of making artificial petroleum: Allowing 10 per cent amortization, using coal costing 10 marks (\$2.40) per ton, with electric current at 3 pfennigs per kilowatt-hour (three-quarters of a cent), a ton of oil would cost 92 marks, about \$22.08. These figures would be reduced, if the plant produced its own electricity. This compares with a market price of about 150 marks, about \$36, a ton for oil. As it requires only from 1½ to 3 tons of lignite to produce a ton of oil, the cost of this item in the ton of oil would be from 15 to 30 marks—in our money, from \$3.60 to \$7.20—and the remainder would be for processing and for capital service.

The Germans hope by the Bergin process to emancipate their country as far as possible from imports of petroleum and its products, 65 per cent of which originate in the United States. With lignite at 50 or 60 cents a ton, supposing the works are located at the mines, and with electric current from the same source, it would appear that we could make oil much cheaper than the Germans can. As long, however, as we have so much natural oil, this process will not interest us practically, except as it deprives us of the German market for our petroleum products.

The German success in making ammonia from lignite concerns us greatly. Their chemists have developed a cheaper process for producing hydrogen by leading gases containing hydrogen over lignite, instead of coke, as heretofore. This hydrogen is made to combine with air nitrogen by the Haber-Bosch process, producing ammonia, which is fixed in the form of sulphate. Storage for 1,000,000 tons of fertilizer salts has been provided at the Leunawerke, indicating that the German fixed nitrogen fertilizer business is good. In addition, the Leunawerke's new calcium nitrate plant is producing 10,000 tons monthly of this compound.

These works are also building a great "Nitrophoska" plant, with a monthly capacity capacity of 10,000 tons, for the production of this new concentrated nitrogen-potash-phosphoric acid fertilizer. The phosphoric acid for "Nitrophoska" will be furnished by the Central German Nitrogen Works at Piesteritz, where native and imported phosphate rock is treated to prepare the phosphoric acid. This "Nitrophoska" is a mixture of diammoniumphosphate and potassium nitrate. It is claimed that this concentrated fertilizer contains 50 per cent plant food, as against 15 per cent in our ordinary American fertilizers.

We have all the materials in our Western country to make this "Nitrophoska." Ammonia and nitrate can be made from our lignite, phosphoric acid obtained from Idaho and potash from Texas or New Mexico.

America Will Not Abolish Its Tariff.

SIR GEORGE PAISH of England has once more appeared in America, apparently in the interest of a propaganda in favor of cutting down the American tariff as he has persistently urged on former visits. According to a dispatch in the New York World, Sir George suggested to President Coolidge a revision of the American tariff downward as a means of aiding in the rehabilitation of Europe; the dispatch quotes him as saying:

"He would eliminate all tariff walls, which prove barriers to trade, so that the nations in debt can sell their goods and meet their obligations. * * * A financial crisis will develop which will react against the United States as well as Europe unless European nations are allowed to keep on their feet. Europe has borrowed all the money it should. It should now be allowed to sell in order to pay back what it owes."

As a propagandist for free trade Sir George, with all of his high standing in financial and economic circles in Europe, is not we think a success. It is much more important for America to maintain its high standard of living by a high standard of wages, protected by a tariff, than it is to tear down our tariff walls and flood this land to an extent even greater than at present with the products of Europe made at what American people would call starvation wages. These wages are only about one-fifth to one-tenth of the wages paid to American working people.

Europe must take some other tack if it wants to get out of its financial distress. It must learn how to pay higher wages in order to increase the consuming capacity of its own people. It must forget the fetish before which it has worshipped in idolatry for many years. It must join the United States in helping to hold up the standard of high wages in order that production may be increased by the stimulation given to the working people to produce more and at the same time to consume more.

So long as Europe and Asia maintain their low rate of wages which have existed through the centuries, so long will the masses of their people live on a starvation basis as compared with conditions in America. It has been a fetish of

England and of Continental countries for many years that wages should be kept at as low a figure as possible. Under this theory England practically destroyed its agricultural interests in order to furnish cheap bread to its industrial workers, forgetting that history shows that every nation which has permitted its agriculture to be destroyed has gone down in ruin.

There are some people in England who realize this condition and who have for years been fighting for improvement of labor in England, but the influence of public sentiment there is still for low wages—a false basis on which to try to build prosperity.

If Sir George wishes to set an example to America on the question of free trade let him persuade England to wipe out all of its own tariff provisions and throw all of its markets wide open to importations from all the world without any tariff barrier of any kind. He knows full well there are many things on which England does maintain a protective tariff. He knows that England would not dare to go on an absolutely free-trade basis, and yet he wants the American people to throw wide open to the products of Europe and the Orient the best market in the world, and a market which in many things consumes as much as the rest of the world combined.

It would be far better for the friendly relations between England and America, and far better for the prosperity of Europe, if Sir George and all other free-trade propagandists would remain at home and not try to convert America to their way of thinking. America is protectionist at heart, and it is not going to yield to any blandishments from abroad its privilege of preserving its own prosperity and the high wages of its working people by breaking down its tariff barriers.

Our good friend Sir George is again making a mistake, as he did last year when we pointed out that his visit to this country would not accomplish the purpose at which he was aiming.

SOUTHERN MANUFACTURERS AND THE ANNUAL MEETING OF THE NATIONAL ASSOCIATION OF MANUFACTURERS.

PRESIDENT J. E. EDGERTON of the National Association of Manufacturers, in writing to the MANUFACTURERS RECORD about the proposed annual meeting of that organization in Chattanooga next fall, says:

"We are going to do all possible to make our convention in Chattanooga the very greatest in our history. We are going to have to depend largely upon the interest that we can develop among the manufacturers of the South. We want to emphasize the fact that this convention is meant as a compliment to our entire section, and that all of the manufacturers of the South should think of themselves as hosts. We know, of course, that we shall have your continued co-operation in the carrying out of this program."

Here is a distinct call from one of the South's greatest manufacturing leaders, for Mr. Edgerton, as our readers know, is the president of a woolen mill in Tennessee and by reason of his great ability has repeatedly been made president of the National Association of Manufacturers.

He calls upon the manufacturers of the South to take an active part in making the next meeting of that organization one of outstanding importance. It is quite probable that the various commercial organizations in the South will do all in their power to help make the meeting a success, but its real

success must largely depend upon the hearty co-operation of the manufacturers of the South.

We urge all manufacturers in the South to take an active interest in this meeting and from time to time keep in touch with President Edgerton, that they may in every way possible co-operate with him in planning for the Chattanooga meeting next October and thus induce an attendance at that meeting of the leading manufacturers of the North and West. Southern manufacturers might also very well keep in constant touch with all their corresponding manufacturers in other sections and urge them to attend the Chattanooga meeting.

It must not be left to the officers of the National Association of Manufacturers to persuade Northern and Western people to attend that meeting. Southern business men of all classes must co-operate to the utmost extent.

CAN CHEAP AND ABUNDANT FARM LABOR BE SECURED?

J. J. PENNEY, the creator of the more than 800 chain stores under the Penney name, writing from Miami Beach, Fla., to the MANUFACTURERS RECORD said:

"I think one of the greatest needs of Florida is a well-organized marketing system, and that right speedily. Within a few miles of Miami large crops of tomatoes are going to waste for want of proper marketing facilities and also for want of sufficient labor to harvest the crops. The vines are

heavy with fruit going to decay. It will be of no use to urge farmers to cultivate until ample labor to harvest the crops and ample marketing facilities are assured."

Coming from a man of Mr. Penney's recognized ability and his devotion to the farming interests, these statements should command attention.

How can better marketing facilities be provided not only for the perishable crops of Florida, but also for similar crops in all parts of the country? And how can a supply of farm labor be assured to gather the crops after they have been planted and cultivated? As in the picking of cotton, it takes a larger amount of labor to gather the crop than it does to plant and cultivate it—so, too, with many other farm products. With perishable crops, however, no time can be lost without a loss of the crop itself, or a part of it.

In Texas the farmers are largely depending upon the incoming of Mexican labor to gather these perishable crops, and even to pick the cotton. Without the cheap and abundant labor of these Mexicans the agricultural progress of Texas would be seriously hampered. Other portions of the country have no such nearby supply of labor to call upon. Moreover, the labor which could, for instance, be used in the gathering of tomatoes might have no other employment when that crop is over. To adjust labor supply for fruits and vegetables, and to provide proper marketing facilities for these products, are two great problems which face the agricultural interests of the country.

NO WET PRESIDENTIAL CANDIDATE CAN WIN THE SOUTH.

MANY months ago it was reported that propaganda had been organized for flooding the country with stuff in favor of Governor Smith as the Democratic presidential candidate and that ample financial backing had been secured for that purpose with the object of having many of the most noted writers of the country work out a plan of publicity to "sell" Smith to the country.

We do not know how much accuracy is in that statement but it is easily seen that in some way and somehow this country is being flooded with Smith propaganda and newspaper men and publicity workers are, apparently, in the field for Smith in a way to create serious suspicion as to what has caused them to start up so suddenly in his behalf.

If the Democrats want to go down to complete destruction, they need only nominate Governor Smith as their presidential candidate. We do not believe that any wet man, and Smith is notoriously wet, it matters not how great may be his abilities, can win the Presidency of the United States. We believe that there are enough honest Prohibitionists to vote against any notoriously wet candidate even if in doing so they know they are helping to defeat their own party.

We cannot believe that the honest-hearted prohibitionists of this country, men and women alike, regardless of political affiliations would vote for a notoriously wet candidate like Governor Smith. There is a strange situation just here. Smith is an Eastern man with no affiliations of any kind whatever with the South or with the sentiments of the South. He is notoriously a wet man and backed by Tammany, possibly the rottenest political organization in the world.

We merely raise the question whether the Democrats of the South are so hog-tied to the Democratic party of the East, which to a large extent has no affiliation whatever with the sentiment of Southern Democrats, that they are willing to sacrifice themselves to the alien Democratic movement of the East. Has the South lost its backbone? Will it yield to the blandishments and the insidious propaganda of the whiskey interests in keeping Smith eternally before the Democrats of the South and of the country at large?

GERMAN AND FRENCH POTASH SYNDICATE SEEKING TO MONOPOLIZE THE AMERICAN MARKET.

AN illuminating disclosure of the way in which the German-French Potash Syndicate is seeking to control the potash market of this country and block the development of American potash interests is given in this issue by Dr. Charles W. Dabney, one of the foremost scientists of the country. Dr. Dabney has given many years of study to this potash question, seeking for some years to bring about a development of the potash resources of Texas and New Mexico.

The importance of developing a potash industry in America was strikingly stated about 10 years before the European war by Edward Atkinson of Boston, one of the leading publicists and economists of the country. In a letter to this paper Mr. Atkinson warned the country against depending upon foreign potash. He stated that the discovery of a source of American potash would be far more important to this country than the discovery of a new iron ore or new gold field. In the event of a foreign war, said he, America might be completely cut off from any potash importations, and therefore it behooved this country to begin a campaign for the investigation of every possible source of potash. He expressed the thought that somewhere in Texas or New Mexico there might be found an adequate supply of potash.

In that remarkable letter Mr. Atkinson outlined with great clearness that which has since come about. That potash exists over a vast territory in Texas and New Mexico is now admitted. The United States Geological Survey regards it as the greatest potash field in the world, but the niggardly policy of the National Government allowed only \$100,000 a year for the investigation by diamond drilling of a region 200 miles by 100 miles in area. The first bill introduced had been for an annual expenditure by the Government, through the Bureau of Mines, of \$500,000 a year, and that was small enough for such an enterprise; but, in its penny-wise and pound-foolish policy, the amount was cut to \$100,000 a year. The Bureau of Mines is doing the best it can with this limited sum, but, as pointed out by Dr. Dabney, it cannot, except very slowly, undertake to cover even the most promising operations of the potash region.

As matters now stand, we are directly under control of the potash interests of Germany and France. The German potash interest has always been monopolistic and dominating in the shipments of potash to this country. Some of the big American fertilizer interests years ago became heavy purchasers of potash mines in Germany, notably the Virginia-Carolina Chemical Company, which owned a large property in Germany, but which, we believe, could only be worked in harmony so far as price was concerned with the monopolistic potash powers of Germany. Doubtless, other fertilizer companies are likewise interested in some of these potash mines.

Dr. Dabney, studying with scientific accuracy for many years this whole situation, outlines some of the things that must be done if we are to break the German-French monopoly over potash and enable the American farmers to secure the supplies absolutely needed for restoring the fertilization of our soil. Calling attention to the vast supplies of phosphate rock in the far West, potash supplies in the Southwest, and to the advantage of nitrate fixation through the gas and lignite deposits of Louisiana, Texas and Arkansas, he indicates the possibility of producing a concentrated fertilizer which could be distributed over a very large part of the country, to the enrichment of the soil and the betterment of the financial condition of the farmers.

In a letter to the MANUFACTURERS RECORD, referring to this

article, written at the request of this paper, Dr. Dabney said:

"Let me explain that I have no financial interest whatever in any potash, lignite or phosphate property anywhere. I am interested in the development of these fertilizer resources in the West particularly, because that country needs fertilizers, and I want to see concentrated fertilizers developed for the whole country. The phosphates of Idaho will have to be concentrated; the potash of Texas may be easily concentrated by solar heat, and ammonia or nitrate made from lignite will be concentrated as produced. From these elements we may make fertilizers so concentrated that they will stand shipment all over the country and to other countries. Why should not some of our Eastern capital interested in fertilizer manufacture go West and start this thing? It is bound to come, and the sooner they recognize this the better it will be for them and the whole country."

THE BEST KIND OF BANK ADVERTISING.

FURTHER proof that all banks are not alike, but that "each one has a distinct personality," as President H. M. Johnston of the Union National Bank, Knoxville, Tenn., recently put it in the *MANUFACTURERS RECORD*, may be noted in the *Arkansas Banker*, the monthly publication of the Arkansas Bankers Association. "Our advertising has striven to open the eyes of Knoxville residents to the enormous development which has been going on around them," said Mr. Johnston in his recent letter, and the Arkansas Bankers Association seems to be following the same policy in regard to that State.

In a full-page advertisement in the *Arkansas Banker*, for instance, the Union Trust Company of Little Rock features "Arkansas' Peaches—Headliners on the Stage." One wonders what an old-time, hardshell bank president would have said in comment on a suggestion that his bank advertise peaches.

Were this peach advertisement by this bank the only venture of its kind by that institution, it might have been considered sporadic and not worthy of comment. But perusal of other numbers of the *Arkansas Banker* shows it to be only a link in a chain of such State advertisements. "Arkansas Rice" claims a full page in another issue; "A Power Plant for the Soil" urges, in a full page, the planting of vetch and burr clover; "Cantaloupes—the Crop That Saved a County" is another full-page appeal, and "These 'Little Pigs Went to Market'—Weighing a Ton and a Half" continues the Union Trust Company series. For Thanksgiving this bank used a page to tell "Why North Arkansas Is Prosperous—Apples."

This advertising by such banks as the Union Trust Company and the Union National Bank is not altruistic in its nature, albeit it hardly would be fair to such banks to call it selfish. These banks promote the prosperity of the sections in which they are situated and so, automatically, enhance their own prosperity. It is possible that the benefit to their communities is more than proportionately greater than to themselves, and to that extent this advertising may be considered disinterested. But, also such advertising proves beyond doubt that the banks which practice it are practical, level-headed, businesslike institutions, and no bank needs more appealing advertising for itself than that.

MR. WELLBORN TO RETIRE.

M. B. WELLBORN, governor of the Atlanta Federal Reserve Bank, has announced that he will retire from that position. The *MANUFACTURERS RECORD* heard several months ago that this retirement would probably take place. Our readers will probably remember the castigation we had to give to Mr. Wellborn some time ago for his denunciation of the Prohibition law as making hypocrites of Americans.

THE LESSON OF THE MISSISSIPPI VALLEY FLOODS.

FOR years this paper and many others have sought, but apparently in vain thus far, to impress upon Congress the supreme necessity of a broad and comprehensive handling of the problem of all the rivers of the Mississippi Valley. That vast territory, stretching from the Alleghany Mountains to the Blue Ridge and from the far northern borders of the country to the Gulf, one of the richest regions naturally in the world, is constantly subjected to the dangers of overflows.

For years individual States tried to levee against these inundations, then the Federal Government joined forces and has been busy for some years in building levees. But when it rains as incessantly as it has done of recent months throughout the Valley, and when the snows of Wisconsin and Michigan and other Lake States begin to melt and pour their vast flood waters down the Mississippi, the nation once more is forced to realize the tremendous loss that we annually permit. The plan so often advocated of complete handling of the whole problem of the Mississippi River and its tributaries must necessarily involve a great system of reservoirs into which these flood waters can be turned in times of heavy rains. Through a properly constructed system these reservoirs would hold the surplus water in flood times, and it could gradually be fed out for irrigation and other purposes in times of drouth or in low stages of the rivers and at the same time made to create great hydro-electric developments.

The task is a gigantic one. The necessity of it has long been seen and urgently advocated. It is in no sense whatever a sectional problem; it is a problem of the entire country, and it must begin in the headwaters of the Mississippi and be carried from those high mountain regions on down to where the Mississippi finally pours its vast stream into the Gulf of Mexico. It is an empire-building project, but it is worth to the country any amount that it might cost.

GAS AND LIGNITE FOR AMMONIA AND NITRATE PLANTS.

DR. CHARLES W. DABNEY, whose series of articles now appearing in the *MANUFACTURERS RECORD* is attracting much attention, in a personal letter, writing in regard to the lignite regions of Arkansas-Louisiana-Texas, says:

"The Arkansas-Louisiana-Texas lignite region, which also contains a great deal of gas, is an ideal location for ammonia and nitrate production plants. The Haber-Bosch and Claude processes, or some modification thereof, are now conceded to be the cheapest methods of making ammonia and nitrate. Of course, gas is a great resource as long as it lasts, but I do not expect that it is going to last more than a few years.

"It will be perfectly safe, however, for capitalists to make large investments in that region because of the immense supplies of lignite from which they can make gas. An abundance of cheap hydrogen gas is the chief requisite for the production of ammonia or nitrate. Of course, the lignite will also supply power and electricity. Practically inexhaustible quantities of lignite are found at various places in this territory. My advice, therefore, would be to build the plant, not primarily with reference to the gas, but with reference to the lignite, and use the gas as long as it lasts, but do not depend on it."

TIME TO BEAT A MARCH.

WISE business men in times of depression realize that that is the period in which to build for future operations. If a manufacturer needs additional equipment or a larger plant, if he is at all wise, he buys equipment or builds the plant during periods of depression when men who lack wisdom are sitting down bemoaning their inability to sell their goods.

Wise investors sell when everybody else is trying to buy and buy when everybody else is trying to sell.

There are thousands of people in the South abundantly able financially to carry out building operations or improvements to their homes or grounds which they have had in mind to do but who are unwisely sitting down awaiting a revival of activity. If all the people in the South who are financially able to do so would build now when material is low and when wages are less than they were a year ago, there would come a very quick and permanent revival of business activity throughout that section. Indeed, the same thing is true as to the whole country.

Every man who has a piece of ground that he hopes some day to improve, a house that needs painting or plumbing or carpentering; every man who intends to build a house or a store and who is financially able to do some of these various things and yet is hesitating to spend the money merely because things are less active than they were, is proving that he is not a wise business man nor a wise investor.

There is no justification for sitting down supinely and sucking one's thumb and bemoaning one's sad fate merely because a man is less prosperous than he would like to be. There is probably not a single man in America who has not had his trials and tribulations in finance and probably his "downs" have been more severe than his "ups." It is only by taking fresh courage, or, as the old saying goes, "spitting on his hands and taking a fresh hold," that the successful men of the country have made their misfortunes their stepping stones to higher things.

The people of the South might well study the fearful conditions which prevailed throughout their section after the Civil War, when poverty ruled the whole South and held it in a deadly grip. With devastated farms, with burned dwellings and destroyed fences, with livestock practically all gone to feed the famishing armies of the Confederacy, with gaunt woe ruling where great wealth had existed, the leaders of the South, with a courage as great as that which carried them to the front on the battlefield, began the upbuilding of the South. Miracles were worked by them. These achievements are the marvel of the age. They wrought the greatest epic in material affairs that the world has known.

Some people who have been thinking about building and who are hesitating to go ahead are waiting, like Micawber, for something to turn up. But the only thing that can turn up under such conditions is a higher cost for doing in future the things which they could do now. If your dwelling needs paint, paint it now. If it needs some new plumbing, do it now. If some carpenter work is needed, put a carpenter on the job now. If you are thinking of clearing up some land, do it now. If you are thinking of building a home and have the money available, do it now.

The creation of employment for idle working people is a religious duty that every man owes to humanity and to God himself to the utmost extent of his ability. No man has a right to be a loafer, it matters not how great his wealth may be. Men of great wealth owe to their country the responsibility of doing the things which will add to its prosperity and thus prove that they are not simply drones upon society. The same responsibility to a lesser degree rests upon the man of more moderate means.

The story is told that in one of his great battles Napoleon

felt that he was defeated and he ordered a drummer boy to beat a retreat. The drummer boy dared to say: "Sire, I have never learned to beat a retreat, but I can beat a march that will make the dead to rise and fight again." Given permission to beat that march, he threw his whole soul into it and rallied the soldiers, enabling Napoleon to win one of his great victories. This country needs to beat a march.

Of a pessimist it has been said that he is a blind man, wandering around in a dark cellar, looking for a black cat that is not there. Too many pessimists have been looking for too many black cats. Let the South everywhere learn to beat a march. And the responsibility of beating it rests upon every man and woman who can by any possibility justifiably give employment to the working people. Let us, like the drummer boy, beat a march and lead on to victory.

A CORRECTION.

IN the editorial of last week entitled "Church and State Must Be Separate" it was said:

"If permitted to continue as the supposed representative of Protestant denominations, though some denominations refuse to have any connection with it, it would build up an oligarchy of religious power in this country for controlling legislative affairs to the ruin of the courts and the destruction of religion itself," etc.

The word "courts" should, of course, have been "country," but was overlooked in the proof.

In the editorial, "Our Amazing Industrial Growth Statistically Stated," which appeared in the *MANUFACTURERS RECORD* of April 21, there was a typographical error in the third paragraph. This paragraph should have read as follows:

"Despite the heavy decrease in the wholesale prices of manufactured products in 1925, as compared with 1919, the total value for 1925, as given by the Manufacturing Census recently compiled, was \$62,705,714,000, or a gain of nearly \$968,000,000. There was an increase between 1921 and 1925 of \$19,052,000,000, or about 44.4 per cent, which the census regards as abnormal, due to the fact that in 1921 there was great industrial depression which had caused a decline in the value of manufactured products by over \$18,310,000,000 as compared with 1919."

West Virginia Coal Is Abundant.

Reports from various coal operators in Southern West Virginia and Eastern Kentucky as to conditions prevailing since the strike call bring generally the same answer: "All mines are running as usual." Recent dispatches from Huntington indicate that the West Virginia Coal Operators Association of the larger Logan fields operations of the Kanawha and New River fields, the Norfolk and Western territory and the Eastern Kentucky fields anticipate no labor trouble, and all mines are working.

James D. Francis, vice-president of the Island Creek Coal Company, Logan county, says: "We have work for all men who want work, and at better wages than the men can make in Ohio, Indiana and other territories that endeavor to compete with us. With between 80,000,000 and 90,000,000 tons on the surface, and the non-union fields of the country capable of supplying all the coal the country needs, there is little opportunity for shortage of bituminous coal."

Belief prevails that the non-union fields will meet the needs of the nation not only in supplying industry with its fuel supply, but also in providing thousands of miners with an adequate living wage regardless of what "labor agitators" may say to the contrary.

The Ministerial Letter to Southern Industrial Leaders and Its Origin.

INTERESTING REPLIES FROM SOME OF THE SIGNERS.

WHEN the circular-letter, signed by about 41 ministers scattered over the South, addressed to the industrial leaders of the South, was issued, making various criticisms against labor employment in the South and referring especially to mill villages and dealing with a good many other problems with which we were quite certain few, if any, of these ministers were at all acquainted, by personal investigation or study, the MANUFACTURERS RECORD sent to the 41 signers the following:

"It has been reported that the circular which you and others signed against cotton-mill villages in the South was prepared by someone connected with the Federal Council of Churches of Christ in America. Will you kindly write me whether so far as you know this is true or not, and also how this petition was presented to you for signature and by whom, and whether you are personally, by your own investigation, acquainted with the conditions existing in mill villages or in other industrial activities of the South?"

"A stamped envelope is enclosed for reply and I will greatly appreciate hearing from you at your earliest convenience."

In response to that letter we have received a number of replies, and it seems evident from some of them that some of the men who signed that circular knew nothing whatever from their own personal knowledge in regard to the matter.

In discussing the unwisdom, as we see it, of the circular-letter, the Manufacturers Record would emphasize the views which it has always advocated of high wages for all working people and of the very best living conditions that can be provided for them. It has spoken with strong approval of the fact that Southern cotton manufacturers, in proportion to wealth, have spent more money for education and general betterment conditions of their employees than any other industry in the world. It is opposed to so-called child labor, both from moral and economic grounds, as unprofitable to employers and employees. It believes in the open shop as the only fair and American system of freedom of labor, and it knows that when ministers of the Gospel, under the leadership of rank Socialists and Reds, many of whom are active in the Federation of Churches and kindred organizations, attempt to mislead the public and create a spirit of ill will of employees to employers they are doing more harm to the working people themselves than they can ever do them good.

Many of these mill villages furnish to the employees of the mills far better living conditions and educational advantages than can be found among the tenements of the East. Their schools in many cases are maintained for a longer period than many of the schools of the towns and of the States in which these villages are located. Most of these villages are provided with buildings for the Y. M. C. A. and the Y. W. C. A. much superior to the same character of buildings in nearby communities. The men who manage these industrial plants are almost wholly Southern men of high character and of devoted Christian service, and are as deeply interested in the spiritual and material welfare of their employees as it is possible for the men who signed that circular to be.

The signers to that circular merely gave to the enemies of

The way the Federal Council of the Churches of Christ in America and some ministers are injuring true religion is indicated in a letter from a well-known business man, himself a devoted Christian, who in a personal letter to this paper, voicing what we are sure are the sentiments of many others, said:

"I was very glad to read your paragraph about the activities of the Federal Council of the Churches of Christ. These gentlemen of the clergy who are insisting on meddling in politics and business, instead of devoting their time to what should be their own arduous duties, are doing more to hurt organized religion than any other influence of which I know. They are tending more and more to bring Protestantism into contempt. I do think many of our clergy are succeeding in making a mockery of religion by their interference in affairs of which they know nothing."

To this it might be added that rank Socialism and Bolshevism are coming into play in some ministerial organizations, without the full knowledge of many members. Here and there a little minority coterie, holding the offices, are working this inside game in education, in religious work, in many so-called philanthropic organizations, without the members at large understanding what is going on.—Editor Manufacturers Record.

Southern advancement the opportunity to deride and denounce the South and claim that these bishops and ministers through these statements had given proof of the backward conditions of Southern mill employees.

In effect, these men have gone out of their way to criticize conditions about which most of them know absolutely nothing from any personal investigation. They have undertaken to discuss economic problems with which most of them are wholly unacquainted. We venture the assertion that 95 per cent of the mill owners or managers

are far better acquainted with Christianity than these ministers are acquainted with the conditions prevailing in these Southern mill villages and the high moral standard maintained in practically all of them. Not for a moment would we assert that every mill employee is an educated and moral person, any more than any one would assert that every dweller in the surrounding towns and cities is educated and moral.

The dwellers in these mill villages have the best of educational and religious opportunities and living conditions are far superior to what they could pay for in the cities. There is no more independent class of people in the country than these mill employees. To suggest that they are under the domination of mill managers, as has sometimes been done, shows a degree of ignorance of the situation that is somewhat appalling. Probably no more independent people live in the world than that element from which the employees in Southern cotton mills are drawn, and the demand for mill employees is so constant that any employee at any time not satisfied with his treatment, or the conditions under which he is living, can promptly pick up and go to some neighboring mill.

Mill managers years ago learned that the mills which provided the best accommodations in dwellings, in general conditions of living, in well-lighted houses, with the best sanitary conditions, were the ones which drew the highest type of employees, and so there has been a rivalry for many years as to which mill could outdo the other in providing the best conditions under which to live.

Many of these mill villages are distant from any city or town. They could not be brought into any neighboring community, as the circular-letter suggests, because there is no neighboring community for many of them.

The circular-letter broadcasted through the country, signed by these Southern ministers, was, we are informed, worded by Rev. Worth M. Tippy of the Federal Council of the Churches of Christ in America. He seems to have persuaded Bishop Cannon to send it out with his approval and to ask Southern ministers to sign it; as Bishop Cannon is reported as on his way to Africa no information can be had from him as to why he sent the letter out asking for signatures. For-

tunately, many ministers to whom the letter was sent showed their judgment by refusing to sign it.

Bishop E. G. Richardson of the Methodist Episcopal Church of the Atlanta Area writes us that he does not know who the author was, and that it was submitted to him with the request that he permit the use of his name if he agreed in general with it, and he gave such consent.

Because a number of the members of the Upper South Carolina Conference of his own denomination, the Methodist Episcopal Church, issued a protest against that circular-letter, Bishop Richardson is a little sarcastic in regard to that and says: "It seems to me very much more presumptuous for a little group whose interests are confined to a section of one's State to assume to speak for conditions generally."

It so happened, however, that the men in the South Carolina Conference who made that protest have lived for years in immediate touch with this village situation and all that is connected therewith. To call the action of these ministers presumption seems to the writer to be a little out of place on the part of a distinguished bishop of that particular denomination.

Bishop Frederick F. Reese of Savannah, Ga., does not understand why the MANUFACTURERS RECORD should appeal to him for information asked for in our letter. That seems to be a rather surprising statement. When a newspaper asks for information in regard to a statement that has been put out by a group of men, everybody naturally understands that the paper is seeking information on that subject for publication, and in this case we have been perfectly willing to give the reasons of those who signed this petition, however great may be our opposition to the wisdom of what they did.

Bishop Reese thinks that American workmen cannot, in his judgment, develop independence and freedom in the direction of their service and become intelligent citizens under mill-village conditions. He apparently overlooks the fact that most of these employes of cotton mills have come out of the mountain regions of the South, and have for the first time in their lives been able to secure employment which gives them a living wage and better conditions for themselves and their families than they could ever have had in the little mountain huts from which they have moved. Indeed, the cotton-mill business of the South has been one of the greatest missionaries of education and of the Gospel ever carried to these mountain people. Mill employment has drawn them out of their mountain huts, where they were without employment and where conditions of living were extremely poor. In these mill villages they have found good conditions of living; wages that enable them to live in greater comfort than they and their families had ever known; educational facilities for their children which they could never have had in the mountain regions, as widely scattered as these people were.

The mill village has given to the teacher and to the preacher opportunities to carry education and religion to many thousands of people whom they would never have reached except through the development of this cotton-mill business and the village life connected therewith.

Bishop Reese, for reasons which we are unable to understand, declines to answer our question as to the origin of the circular, but other bishops and ministers do not seem to be at all chary as to answering that question. The reason for asking it was to know whether this circular-letter had originated in the South, among Southern ministers, or whether it had originated elsewhere and been foisted upon these ministers, perhaps with a latent, if unexpressed, thought of some enemy of the South who wished in this way to misrepresent this section before the world. That game has been played many times in the last 40 years, and we presume it

will still be played as long as time lasts, and as long as agitators and Communists and Bolsheviks work church organizations for the advancement of their individual activities.

When the Interchurch Movement died in disgrace, leaving behind it a stench which all the Seven Seas of the world will never wash out, capturing as it did during its short life the support of many ministers who knew nothing whatever about its origin or its plans, and capturing many others who became its strong propagandists, it was hoped that all organizations of that kind would cease to exist and be buried in the same grave and with face downward.

Rev. J. W. Cammack, corresponding secretary of the Education Board of the Southern Baptist Convention, seems to have signed this petition merely because somebody requested him to do so, and without any real knowledge on his part as to the intent of the paper, judged by his letter, which follows:

We Regret He Was Not As Much Interested Before He Signed As Afterwards.

Education Board,
Southern Baptist Convention.

Birmingham, Ala., April 15.

Editor Manufacturers Record:

Your letter of April 13 received today. I have become more interested than I expected when I attached my name to a paper that came to this office some weeks ago from Washington. I have written for a copy of the exact statement as it came to me when my name was signed to it. I had a reply from the party to whom I wrote, but he did not send what I requested. I do not know that this was intentional on his part. I have written to him again, requesting a copy of the paper as it came here originally, and as soon as I hear from him I will reply fully to your letter, which is now before me.

J. W. CAMMACK, Corresponding Secretary.

Since the foregoing letter was received, we have had a more detailed letter from Dr. Cammack, who under date of April 21 writes:

"I have received the information desired and am writing you as suggested in my letter of a few days ago. The communication which I signed, along with a number of other men, was sent out by a gentleman who for a number of years worked with the Social Service Commission of the M. E. Church South, in collaboration with Bishop Cannon. I think he is connected with one of the commissions of the Federal Council of Churches, but was not acting for the Federal Council in any official capacity in sending out this statement, as the paper was not a Federal Council document. This statement was made in the original letter that came to me, together with the 'pastoral letter' addressed to industrial leaders of the South. The original letter to me stated that the name of the Federal Council of Churches would not appear in the press releases, since the document was not sent out by the Federal Council.

"As to my opportunity for first-hand acquaintance with conditions in mill villages and other industrial activities, I beg leave to say that, while I have not made any thorough study of these conditions, I have spent considerable time in such mill centers as Danville, Va., Greenville, S. C., Birmingham, Ala., and other places. It was my thought that it was an effort to improve conditions in all mill centers and industrial communities, which I think all will agree are capable of improvement. I was impressed that the 'pastoral letter' was by no means radical, but rather conservative; for instance, it suggested that conditions could be steadily improved and that there be friendly co-operation on the part of employer, employee, churches, educators and officials of the State, and that in the lifetime of this generation, by such methods, there would be a growth of goodwill and co-operation. As I understand the situation, this is what all of us are striving for.

"As to the merging of the mill villages into the larger community, the suggestion was that this be done only as it was consistent with safety and the interest of all persons involved. This, of course, could be interpreted to mean that in some cases the merging could not now take place. If I have not covered entirely the information you desire, please let me know."

Bishop Reese Declines to Answer Our Question As to the Origin of This Circular-Letter.

The Bishop of Georgia.

Savannah, April 18.

Editor Manufacturers Record:

I dislike to appear to be in the slightest degree discourteous, and especially to you who have demonstrated your great interest in the South, and who have through your paper rendered such valuable service to its industrial progress. But I am unable to understand why you should appeal to me for the information asked for in your letter of April 13. You give me no intimation of the reason for which you seek this information, nor of the use you propose to make of it.

The contents of the circular, whether its statements are true or not, and whether its tone is fair and considerate to those to whom it is addressed, are, it seems to me, the only questions of importance. It stands on its own merits, and whatever value it may have as an expression of opinion depends upon the honesty and intelligence of the signatories. I may say that, while I do not presume to assume to be an expert in the matters referred to, still I lived for a number of years in a community where there were several large textile mills and I was in frequent and intimate contact with many of the operatives, so that I am not entirely unfamiliar with conditions.

I merely wish to disclaim any desire or intention to express any harsh or critical judgment of the people who are operating textile mills in the South. I recognize cordially the sense of responsibility and the desire on the part of many of them to do what is fair and just to their employees. I recognize the difficulties under which they labor. I still feel, however, that mill villages under the large degree of control by the mill owners do not provide ideal conditions under which American manual laborers should permanently live. They have been, and may be yet in some places, necessary. But American workmen cannot, in my judgment, develop independence and freedom in the direction of their lives and become intelligent citizens under such conditions. As time goes on, I think they should be gradually abolished. The more intelligent these people become, the more restive they will become under the paternalistic control in many features of their lives.

Personally I have no sympathy with the ideals or methods of Socialism, but I am trying to believe in the practicability of political and social democracy. We can only work out this great problem of democracy by giving men the opportunity to demonstrate their capacity for self-government, individually and collectively. I am sure that you agree with me in this.

I trust that you will kindly pardon me for declining to answer your questions about the origin of the circular.

FREDERICK F. REESE, Bishop of Georgia.

Signed With Specific Reservations, But They Were Not Published.

Centenary M. E. Church South.

Winston-Salem, N. C., April 16.

Editor Manufacturers Record:

I am sorry I cannot answer as to the author of the article referred to. It came to me, I'm sure, with a letter from Bishop Cannon.

May I say this personal word, not by way of apology for my part, for I do not think the paper needs it, but that you may have the full facts: I signed the statement with a notation that I was in sympathy with the general idea, but that there were things in it that I knew nothing about.

CHARLES C. WEAVER.

A Question of Who Was Most Presumptuous.

Atlanta Area

Methodist Episcopal Church.

Atlanta, Ga., April 15.

Editor Manufacturers Record:

Your letter of April 13 just received. I would hardly like to call the paper I signed a "circular against cotton-mill villages." I thought it a rather cautious and dignified word about general conditions governing the working classes, so

called. I do not know who the author was or who the authors were. It was submitted to me with a request that I permit the use of my name if I agreed in general with it. I gave such consent. I have lived in Atlanta for seven years. During those years my duties have required me to travel quite extensively in the States of South Carolina, Georgia and Alabama. I have supervised the churches of the Methodist Episcopal denomination in these States. In this way I have come to know something of conditions under which the operatives live.

This morning I received a letter signed by half a dozen members of the Upper South Carolina Conference of the Methodist Episcopal Church South. They claim that the paper signed by all of those persons was presumptuous. It seems to me very much more presumptuous for a little group whose interests are confined to a section of one State to assume to speak for conditions generally. Some of the reactions to this paper seem to me to prove conclusively that the paper was needed.

E. G. RICHARDSON, Resident Bishop.

Bishop Dobbs' Courteous and Kindly Letter.

Hoyt M. Dobbs, Bishop, Methodist Episcopal Church South.

Birmingham, Ala., April 16.

Editor Manufacturers Record:

I take pleasure in complying with your courteous request made in your letter of April 13, which is before me.

1. I understand that the "statement" to which you refer represents the Federal Council of Churches and that it was prepared by Dr. Worth M. Tippy, 105 East 22d street, New York city. To this effect I wired you yesterday at Daytona Beach.

2. The outline of the statement was sent to me with the request that I subscribe to the article referring to mill villages. This I did—later, I received the full statement as it has appeared in press columns.

3. I am not "personally, by my own investigation, acquainted with the conditions existing in mill villages or in other industrial activities of the South." My knowledge of such things is certainly not technical.

4. I may add, supplementing the above, that in my judgment, speaking for myself only, another and more satisfactory method might have been pursued. If I have done either directly or indirectly an injustice to the manufacturers of America, I wish to do all in my power to rectify it. I am equally desirous of being just to my colleagues and others who signed the document.

5. I am enclosing a correct copy of what has been termed "The Social Creed of the Churches," which I aided in having placed in the records of practically all the churches of this country—it is today indorsed by practically all. You will note that it does not propose the measures or the methods—it deals only with principles and aims.

6. I realize that it is but just and true that I say you have done and are doing now a constructive service for and in the South, which is second to none of which I have any knowledge. You will permit me to say, therefore, that I believe you are in position to indicate the happiest manner of adjusting this important matter. I shall welcome your suggestions and, while I cannot speak for others, I have reason to think they will welcome them, too.

7. With no desire to appear presumptuous or aggressive in any way, I may be permitted to say that personally I should be very happy to know that a committee composed of one suitable man from the various groups whose interests are touched might study the question and frame that which might be a happier statement than the one which has appeared. I may go further and say that I think Richard H. Edmonds, Col. John E. Edgerton and Dr. Worth M. Tippy ought to be three members of this committee or commission, however large the group may be made.

8. I hope it is not necessary for me to state that I am profoundly and practically interested in the welfare of all groups of men and am greatly desirous of ordering my work in such a manner as to win the confidence of all striving toward the same ends.

You are a very busy man also, I am sure. I hope, therefore, you will pardon the length of this letter, and believe you will agree with me that a subject of this kind cannot be handled lightly.

HOYT M. DOBBS.

While the editor of the MANUFACTURERS RECORD appreciates

the compliment suggested by Bishop Dobbs, it is hardly necessary to say that so far as he is concerned membership on such a committee would be impossible, and that so far as Mr. Edgerton is concerned no better name for any responsible work for the advancement of religion and the betterment of humanity could be suggested. Just why Dr. Tippy should be suggested as a member of a committee to deal with a Southern situation we do not know.

Dr. Dobbs thinks that the editor of the MANUFACTURERS RECORD is in a position "to indicate the happiest manner of adjusting this important matter." The adjustment of the whole matter, we think, is for outsiders to leave it absolutely alone. The cotton-mill managers of the South and great industrial leaders in other lines of work are fully appreciative of the fact that, if viewed from no higher standpoint than that of selfishness, the best conditions of living that they could provide for their working people will bring the best financial results.

For many years it has been the aim of these managers of mills and mill villages, whether born in the South or born in other sections, to recognize that mill-village life must be made attractive in every possible way—that the highest standard of morality must be upheld; that well-manned and well-maintained public schools are a necessity; that they must do all in their power to advance the educational activities of these villages, to encourage the preaching of the Gospel, to give to the employees comfortable dwellings with all modern conveniences, to furnish to them a piece of ground sufficiently large around the house for raising flowers and vegetables and to encourage these employees in every way possible to do these things (for the best display of flowers and the best production of vegetables, prizes are often given).

In contrast with the living conditions in the tenements of the East, New York especially, the mill villages of the South are like Paradise itself. These mill villages are very generally supplied with electric lights, with water and with paved sidewalks, and the rent of these dwellings runs from about 25 cents to 75 cents a room a month. In other words, a six-room house would rent from \$1.50 to \$4.50 a month, and in many cases no charge is made for electric lights or for water. These villages are generally equipped, in addition to the schools built and maintained by the mills, with exceptionally good buildings for the Y. M. C. A. and Y. W. C. A. Many of them employ graduate nurses to look after the welfare of the people, or experts in cooking and housekeeping to encourage the people in these lines of work.

The churches in these villages are centers of religious activity and a very large proportion of the mill employees are church members and devoted to their religious activities. Work of this kind has been making great progress throughout the mill villages and other industrial villages in the South for many years. Every achievement in these lines by one company only serves to stimulate other companies not merely to follow its good example, but to go a step farther.

It is needless to say that the spirit shown in Bishop Dobbs' courteous and kindly letter is fully appreciated.

Thinks Too Long Hours of Labor Exist.

First Methodist Episcopal Church, South.
Athens, Ga., April 18.

Editor Manufacturers Record:

I did not preserve the original letter to me, but it is my recollection that it was from Federal Council of Churches, Social Service Department. I do not take it to be an unfriendly arraignment, but a friendly suggestion. I have never been pastor of a mill village, but there has always been mill villages adjacent to my pastorate. It has been my observation that too long hours of labor exist. These are facts, easily obtainable. If there are any false statements in the circular-letter they should be refuted.

W. R. KING, Pastor.

Wired the Federal Council of Churches Authority to Use His Signature.

First Methodist Episcopal Church.

Miami, Fla., April 19.

Editor Manufacturers Record:

Your communication of April 13 is before me. I am very happy to reply promptly to the questions which it propounds, though I think the implication of the interrogations is beside the mark. The great question to be considered is not, "Did someone connected with the Federal Council of Churches prepare the circular signed?" or how the names of those sending it forth came to be upon the document, but, rather, whether there is basis in fact upon which to posit the friendly, wholesome and Christian suggestions made. May I take up your questions in order:

1. I cannot say who prepared the paper in question, but I hope it originated in the mind of someone connected with the Federal Council of Churches. Where a consensus of opinion is to be expressed, some individual or small committee must prepare the statement. This is the rule in bodies of any size.

2. I received through the mail from a good friend my copy of the document. With it came a suggestion that, if the sentiments expressed were mine, my signature would be welcome. I kept the paper ten days or more, checking up on its statements with such information as I had, and then wired authorization of my signature to the Federal Council of Churches.

3. I have lived in the South 11 years, and have made frequent visits to the mill towns of Georgia, South Carolina and North Carolina. I have talked with mill owners and operatives, and also with welfare workers generally employed by the mill owners. I believe, with such information as has been gained, that the statements contained in "An Appeal to Industrial Leaders of the South" are warranted, and that Christian mill owners who have made wonderful strides in a few years will recognize the fairness of the suggestions set forth. A real Christian steward recognizes his obligations as an opportunity for service. Others will resent the proposal to give consideration to such changes as will advance the interests of the worker and through him the welfare of the community in general.

R. N. MERRILL, Pastor.

Request to Sign Came From Federal Council of Churches.

Bishop's House,
Diocese of Tennessee.

Memphis, Tenn., April 16.

Editor Manufacturers Record:

Your name is associated in my mind with good works, and, therefore, I am glad to reply to your letter of the 13th inst.

1. I do not remember signing any paper that was "against cotton-mill villages." The paper which I agreed to have my name appended to was, I understood, a mild and courteous petition to the manufacturers of the South to remember their obligation of human sympathy with their employees. I would never have signed a paper that condemned anybody.

2. The request to permit my name to appear came from the Federal Council of Churches through Bishop Cannon, a Methodist bishop, I believe.

THOMAS F. GAILOR.

Influenced by Bishop Cannon.

Oklahoma City, Okla.

Editor Manufacturers Record:

I was influenced to sign the paper of which you speak because it was fostered by Bishop James Cannon, Jr., of my own church. In such matters, I have found him a safe leader. I have had no extensive personal acquaintance with cotton mill villages.

FORNEY HUTCHINSON.

From Rev. Mr. Schroeder of New Orleans.

New Orleans, La., April 19.

Editor Manufacturers Record:

Your statement is essentially correct. I am conversant with conditions in the cotton mills of New Orleans where I have been a pastor for the past ten years.

PAUL M. SCHROEDER.

**As Bishop Cannon Is in Africa, We Are Not
Certain But What His Views Would Now Be
Different As to the Wisdom of His
Worth Tippy Letter.**

Little Rock, Ark.

Editor Manufacturers Record:

In reply to your letter of April 13, permit me to say that Bishop James Cannon of Washington, D. C., wrote me to know if I would be willing to sign the statement which went out to the industrial leaders of the South, a copy of the statement being sent with his letter. I read it very carefully and signed it very cheerfully. I have no apologies to make and neither has Bishop Cannon.

Having been the secretary of the General Board of Church Extension for the Methodist Episcopal Church South, I learned quite a good deal about mill villages. I am thoroughly in sympathy with the statement sent out. I am hoping it will accomplish good. We meant it to that end and nothing else.

We appreciate what certain leaders are doing for the mill villages, but conditions are by no means ideal in many places. We want to improve them. We want your co-operation. We are sincerely hoping that, instead of stirring up strife, we will be able to bring about hearty co-operation of the mill owners in bettering the conditions spoken of in the letter sent out.

H. A. BOAZ.

**Mr. William Dunn Ryan Wishes Us to Be
Explicit.**

Houston, Texas.

Editor Manufacturers Record:

Evidently you are mistaken. I signed no "circular against cotton mill villages in the South." I did sign an open letter under the caption, "An Appeal to Industrial Leaders of the South." Could this be the document to which you refer? Please try to be explicit.

WM. DUNN RYAN.

**A Rector's Ringing Letter in Spartanburg Herald Against the
Ministerial Letter About Southern Industrial Conditions.**

Editor of the Herald:

I am glad to see that the Methodist commission now meeting in this city has challenged the statement with regard to the mill communities issued by Bishop James Cannon, Jr., and others representing a commission of the Federation of Churches of Christ in America. I am glad to note that they have answered this statement conclusively and effectively. I note that the resolutions of the Methodist commission refer to the fact that many of the signers of the "appeal to industrial leaders" live at a distance from the area of Southern industry. The reason for this is, I think, quite clear, namely, that it was impossible for Bishop Cannon's commission to obtain signatures from those who lived in the midst of the industrial area in the South and understood conditions there.

IN COMMON, I SUPPOSE, WITH OTHER SOUTHERN MINISTERS, I RECEIVED SEVERAL LETTERS REQUESTING MY SIGNATURE TO THIS STATEMENT. THE LAST ONE WAS QUITE URGENT IN THE EFFORT "TO SECURE 25 SIGNATURES FROM THE SOUTH." I WAS REQUESTED TO TELEGRAPH MY SIGNATURE AT THE EXPENSE OF THE COMMISSION. FINDING MYSELF ENTIRELY OUT OF SYMPATHY WITH THE MOVEMENT, I DID NOT COMPLY WITH THEIR REQUEST. HAD I THOUGHT THAT THE VOICE OF AN INCONSPICUOUS SOUTHERN MINISTER WOULD BE HEEDDED, I SHOULD HAVE ENTERED MY PROTEST AT THE TIME.

In conversation with the Rt. Rev. Theodore D. Bratton, D. D., Bishop of Mississippi, who recently conducted the Bishops' Crusade in the Church of the Advent, I found that he had written an earnest protest in reply to the request for his signature. His attitude is doubtless characteristic of that of Southern leaders in the industrial region.

Ever since I have been acquainted with industrial conditions in South and North Carolina I have said publicly and privately that I looked upon the cotton mill as the greatest door of opportunity that had been opened in a century and a half to many of our people. I have worked among certain of the cotton-mill operatives in their mountain homes before they came to the mill, and with all my love of the beautiful mountains I know that their condition in the mill villages is on the whole vastly better than in the homes from which they came. The entrance into the mill community has meant almost invariably vastly better religious and educational opportunities in addition to the better financial situation which they have secured through regular work and, in the main, considerate and thoughtful employers.

While the mill communities are not ideal, they represent, in my opinion, an enormous advance in the condition of the people who live and work in them. It would be hard to find kindlier or friendlier people than the operatives of our mills. Personally, I value very highly the friendships I have formed among the operatives of the mills in and around Spartanburg. I am glad to testify publicly to my appreciation of their sturdy character and many fine qualities.

With regard to the mill officials, I think it would be hard to find a body of men more intent upon improving the condition of their employees. Indeed, to my mind, one of the brightest chapters in the history of the South is the record of the patient and persevering efforts on the part of the mill officials to provide for the religious, intellectual and physical development of their people. A visit to any one of our progressive mills will satisfy any unprejudiced inquirer after truth. The neat and attractive homes of the people, playgrounds for the children, school buildings that would do credit to a city, built and maintained with their complement of teachers at the expense of the mill; community houses with bright-faced, attractive directors, day nurseries for the care of the children while the mothers are at work, splendid churches in whose erection and maintenance the mill generally contributes substantially—these are the evidences of interest in their employees on the part of the mill officials too clear to be overlooked or misunderstood by any candid observer.

Many mills have extended their attention to the recreational side of the lives of their operatives by providing a place for summer vacation. While there are doubtless many others, I can speak personally of Idlewild, maintained in the mountains of South Carolina by the Woodside Mills of Greenville. I was delighted with this beautiful mountain village, with a splendid clubhouse, reminding me of the lodges in the Yellowstone Park, with attractive homes spread over a section of mountain territory furnished and ready for use by families from the mills. I remarked that many organizations would like to rent these homes when they were not in use by the mill operatives. The reply was that the houses were never for rent; that they were built only for the use of the mill operatives: that each family was given the use of a house for a week or more during the summer season, and that no one not in the employ of the organization could secure the use of them.

These are illustrations of the spirit of those who are directing our great industrial corporations in the Carolinas. I am glad to bear public testimony to their high character and the sense of responsibility for the welfare of their employees which animates them and often constitutes the principal factor in the direction of their energies.

W. H. K. PENDLETON, Rector,
Church of the Advent.

Spartanburg, April 6.

Additional Details of Circular-Letter About Industrial Villages, Its Origin and Its Signers.

With that "pernicious activity" which seems to know no rest, but which is ever striving to drive the churches of the land out of the particular work for which they were organized and force them into all manner of political and other activities, the Federal Council of the Churches of Christ in America, through Rev. Worth M. Tippy, the secretary, induced Bishop Cannon of Richmond to send out a circular-letter to ministers throughout the South containing what was called "An Appeal to the Industrial Leaders of the South." This subject was discussed rather freely in the MANUFACTURERS RECORD of last week, but as we did not at that time publish Bishop Cannon's letter to the religious papers of the country or the list of those who had signed this petition, we give it now as a matter of record. Bishop Cannon's letter and the circular are as follows:

"To Editors of the Religious Press:

"The important statement which follows, relating to vital interests of our Southern people, is mailed to you with the hope that you will print it in full, together with the signers, at an early date, and that you will give it editorial comment and support.

"The list of signers contains many distinguished names of Southern ministers, among them ten bishops, and includes the leading communions of the South.

"The time has come, in the judgment of the signers, for the Church to give more attention to interpreting the spirit and teachings of Christ to the human relationships of industry, since they so greatly affect the welfare of our people and since the Kingdom of God is also to rule in industry. In this teaching the religious press has a most important function.

"Faithfully yours,

"JAMES CANNON, JR.

"Washington, D. C., March 15."

"An Appeal to Industrial Leaders of the South:

"We, the undersigned pastors and officials of churches of the South, address this communication to you because of our interest in the well-being of the people of the industrial South. While we recognize that there are problems similar to these herein mentioned in other parts of the country, yet we as Southern men are addressing this appeal solely to you because we recognize that the South has social conditions and industrial problems which are peculiarly its own, and which must be met by those who have a full knowledge of those conditions. We are proud of the remarkable growth of Southern industry and we know that you are concerned with us in the welfare of our work people and those dependent upon them.

"We bring before you with the greater confidence, therefore, the necessity for the improvement of certain social and economic conditions, especially in the textile industry, but existing also in other industries. These are, to speak briefly: The isolation of population in the mill village; the long working week, extending in many industries even to 55 and 60 hours; a certain amount of the seven-day week which still exists in some industries; the employment of women and of children between 14 and 16, at over-long periods of labor; low wage standards in some industries, with consequent depressed standards of living; the general absence of labor representation in our factories.

"Life in a mill village under company control, while an advance of status in the beginning, is not the best training ground for citizenship in that it does not train residents for participation in government. It has generally proved in recent years, however it may have been at first, to be unfavorable to education, to religion and to understanding and sympathy between the citizens of the mill village and those of the larger community. In spite of the difficulty of the problem we are convinced that these villages should be merged as rapidly as is consistent with safety into the larger community.

"We do not undertake in this appeal to suggest the form which employe representation in factory government should take, whether arrangements negotiated with regular unions or forms of works' councils. But labor is human and not a commodity. Labor gives all that it has, including capital through savings, and since labor also has wisdom, skill and ingenuity to contribute to the greater productivity of our industries, it is desirable and right that it should have a proper share in making and enforcing the regulations by which industrial plants are controlled. The quality and quantity of the product, elimination of waste,

regularity of employment, better control of industry as a whole, the wage scale and the fairness of the discipline of the shop are of deepest interest to labor. Higher wages, better schools, shorter hours of labor and the independence of the worker tend to enrich life and to develop a stronger type of citizenship.

"We believe that all of these conditions can be steadily improved and we therefore urge you, as present leaders holding positions of responsibility and vantage to take the initiative in their improvement. We believe that if you will take the initiative, and if there can be the friendly co-operation of employers, employes, churches, educators and officials of the State, it will be possible to build in the South by united effort, in the lifetime of this generation, a greater and more powerful industry, constructed solidly upon good-will and co-operation, avoiding the waste and bitterness of industrial conflicts and mitigating the intensity of the class struggle.

"We cannot allow ourselves to close this statement without saying that the policy which we have presented to you as employers, if it is followed, requires an intelligent and sympathetic appreciation by the public of the difficulties, financial and otherwise, which beset leaders of Southern industry, especially in the textile industry, at this time. And it calls for the wholehearted co-operation of labor, organized and unorganized, if it is to succeed. We pledge our active efforts to secure this understanding and co-operation.

"JAMES CANNON, JR., Washington, D. C.

"WILL W. ALEXANDER, Atlanta, Ga.

"L. S. BARTON, Norman, Okla.

"H. A. BOAZ, Little Rock, Ark.

"L. C. BRANSCOMB, Birmingham, Ala.

"O. E. BROWN, Nashville, Tenn.

"J. W. CAMMACK, Birmingham, Ala.

"GEORGE A. CAMPBELL, St. Louis, Mo.

"HOYT M. DOBBS, Birmingham, Ala.

"GRAHAM FRANK, Dallas, Texas.

"THOMAS F. GAILOR, Memphis, Tenn.

"W. W. HAMILTON, New Orleans, La.

"ROLVIX HARLAN, Richmond, Va.

"IVAN LEE HOLT, St. Louis, Mo.

"FORNEY HUTCHINSON, Oklahoma City.

"M. ASHBY JONES, St. Louis, Mo.

"PAUL B. KERN, San Antonio, Texas.

"ELISHA A. KING, Miami, Fla.

"W. P. KING, Athens, Ga.

"WALTER L. LINGLE, Richmond, Va.

"A. P. LYON, Louisville, Ky.

"H. D. C. MACLACHLIN, Richmond, Va.

"R. N. MERRILL, Miami, Fla.

"A. C. MILLAR, Little Rock, Ark.

"JAMES W. MOORE, Petersburg, Va.

"JOHN M. MOORE, Dallas, Texas.

"EDWIN D. MOUZON, Charlotte, N. C.

"MRS. W. A. NEWELL, Mt. Airy, N. C.

"FREDERICK F. REESE, Savannah, Ga.

"E. G. RICHARDSON, Atlanta, Ga.

"GILBERT T. ROWE, Nashville, Tenn.

"WILLIAM DUNN RYAN, Houston, Texas.

"PAUL M. SCHROEDER, New Orleans, La.

"MRS. F. F. STEPHENS, Columbia, Mo.

"J. RICHARD SPANN, Dallas, Texas.

"WILBUR P. THIRKIELD, Chattanooga, Tenn.

"H. ST. GEORGE TUCKER, Richmond, Va.

"A. F. WATKINS, Meridian, Miss.

"CHAS. C. WEAVER, Winston-Salem, N. C.

"C. B. WILMER, Sewanee, Tenn.

"COMER W. WOODWARD, Emory University, Ga.

"A. C. ZUMBRUNNEN, Dallas, Texas."

Virginia 'Cross Continent Tour.

Following the recent annual meeting of Shenandoah Valley, Inc., plans are announced by President Howard J. Benchhoff for a tour of the "Shenandoah Valley Special," a train which on two trips last year attracted favorable, widespread attention to Virginia. The train will start on June 18 for a tour of a month through Asheville, N. C., New Orleans and Texas, to Tia Juana, Mexico; a week in California and so on to Vancouver. An 800-mile boat ride will take the travelers into Alaska and the return trip will be made by way of Jasper National Park, Lake Louise, Banff, Calgary and Chicago. "The two big words that will be heralded across the continent are 'Shenandoah' and 'Virginia,'" says Colonel Benchhoff. Staunton will be headquarters.

John E. Edgerton Tells Ministers Industry Has Advanced Further Than Religion.

TAKES EXCEPTION TO STATEMENTS MADE BY GROUP OF 41 SOUTHERN MINISTERS WHO COMPLAIN OF INDUSTRIAL SHORTCOMINGS.

[Mr. Edgerton is a woolen manufacturer of Tennessee, president of the Tennessee Manufacturers' Association and president for several years of the National Association of Manufacturers. He is one of the foremost Methodist laymen of the South, and in his plant in Tennessee he maintains a chapel where his employees meet every morning for religious service before entering upon their day's labor. About 90 per cent of his employees, we have understood, are Christians. Therefore, the views expressed by Mr. Edgerton in the following statement should command the utmost attention, not only of the ministers who signed the mill village circular, but also of all others.—Editor Manufacturers Record.]

In his statement Mr. Edgerton said:

"On March 27 the press published 'An Appeal to Industrial Leaders of the South,' signed by 41 representative Southern bishops and ministers. The only published reply to this appeal which I have seen was in the April 2 issue of a New York paper under the headlines 'South Challenges Attack on Mill Village System.' That statement, from the editor of a Southern trade paper, is so vitriolic, so full of vulgar irrelevancy and so grossly unfair in its incoherent make-up that I am unwilling for it to stand alone as representative of the mental or moral attitude of Southern manufacturers. While I do not approve of some implications and suggestions in the appeal of the ministers, I do not question their right to make it, nor challenge the spirit in which it was made. The gentlemen who signed it are not only reputable, but are among the most distinguished clergymen and citizens in the South. Eight of them are Bishops distributed among three distinct denominations, and the others are outstanding ministers also in several different churches. All of them have been for many years among the master builders of the New South on the old foundations of the Christian religion.

"The very worst that an intelligent and unimpassioned analysis of the esteemed gentlemen's address can reveal is a misunderstanding of the real nature of some of industry's problems, which undoubtedly accounts for certain unconsciously unjust implications and unacceptable suggestions in their fervent appeal.

"But there is nothing deliberately insidious or invidious about it. On the contrary, it breathes the very spirit of intended helpfulness. In this connection it should be understood that nothing can be gained by manufacturers, or those who essay to speak for them, by trying either to ignore or antagonize the processes or processors of education and religion, and there is no way to insulate industry against the social currents. The wiser course is to recognize the interdependency of all elements of society and to endeavor in legitimate ways to direct helpfully to industry and the nation all processes and currents which emanate from responsible sources.

"If modern industrialists would not continue to be the favorite objects of reforming enterprises, they must get into the reforming business themselves, first always by setting their own houses in order when out of order, and then by communicating their viewpoints to the uninformed multitudes. It is as essential that industry be interpreted to preachers, teachers and other non-industrial groups as it is that the Christian religion be interpreted to industry.

"It is probably true that the average preacher, teacher and social worker knows as little about the practical operations of economic law as the average industrialist knows about the operations of spiritual law. In my opinion, therefore, it would be quite as appropriate, and is quite as necessary, for

industrialists to issue an appeal calling upon non-industrial elements in the name of the common welfare to seek to understand and perfect their own businesses, and to understand the problems and viewpoints of others, as it is for any group outside the circumference of industry to issue an appeal of like character to those within. In other words, the problems within the various professions, vocations and trades outside of industry are at least equally as numerous as those within industry itself, and it is quite as essential to our national progress that these problems be solved as it is that our industrial problems be solved.

"As a matter of fact American industry today is about the only thing in America that is looked upon with envy by the rest of the world. It has attained a higher degree of success than any of our professions or non-industrial pursuits, or any of our other institutions.

"Yet it is the object of more attack and more efforts are being made within and without to reform it than are made in any other direction.

"If the same degree of progress in the reformation of our political, religious, moral and educational lives had been made as has been made in our industrial life, America would have very much less to worry about. But industrialists are more to blame than anybody else for the universal disposition of others to reform them. They invite invasion from the outside by their very indifference toward the process of organized preparedness.

"It is true that Southern industry has problems peculiar to the section, and as it develops it is becoming more and more heir to the problems with which other industrial sections have been struggling for years. Certainly this section should try to profit from the experience of other sections more advanced industrially than ours. But it should be careful to avoid detaching itself from considerations of national unity and thinking of itself as other than an essential part of a national whole. It should capitalize for its own benefit and the nation's such advantages as it possesses, but should never use them in any way to harm unjustly any other section.

"Mill villages in the South are the natural products of conditions in that section. The South has very few cities of considerable size. To a large extent its industries are in small towns and the rural districts, which have been unable to furnish adequate housing facilities for industrial enterprises. Corporations have, therefore, had to build their own houses for their people. Otherwise there would have been little industrial development. As fast as housing facilities are provided by the so-called 'larger communities,' mill villages will be inevitably absorbed. But it cannot be done by social or political decrees or by artificial processes. Owners of textile or other plants will not object to this natural absorption, and perhaps the ministers are right in their conclusion that it will be best.

"The most unfortunate note in this appeal of the distinguished gentlemen is in the emphasis that they apparently

put upon the desirability of the curtailment of work inversely to the increase of the rewards of effort.

"There is not a respectable industrial employer in the nation who does not wish to pay his employees as much as not only justice demands, but as the condition of his business will permit.

"The wage standards will be advanced on the whole as rapidly as economic conditions permit. They are not now, never have been and never can be determined by the necessities of men, nor by moral requirements. Christ Himself did not determine rewards that way, and men cannot do it.

"The sooner, therefore, our brethren in non-industrial pursuits learn the fallacy of the so-called living wage theory, the sooner they will remove one of the chief obstructions to their greater help to industry.

"Such low wage standards as exist in any industry as a whole are due to the condition of the industry itself. The textile industry in particular has been depressed to varying degrees for several years, and naturally the wage-earners within that industry have had to share the burdens of this condition even as they shared its greater prosperity.

"Of course, there are doubtless individual instances of selfish interpretation and application of economic law, and it is here that the message of the Gospel has its opportunity. It is also perhaps true that in isolated instances women and children are required to work longer than is good for them.

"But on the whole the South has been making marvelous progress in this respect within recent years, and more and more those of immature years are being eliminated from industry as fast as educational facilities become adequate to their absorption.

"I do not approve the suggestion that work is a curse and that it should be one of our ideals to abolish it as rapidly as possible. It should be remembered that there is quite as intimate relationship between leisure and crime as there is between leisure and culture. As a matter of fact, as our wage standards have advanced in this country, and as hours have been shortened, crime has grown much faster than culture, until our nation stands out as the most criminal the world has ever known. It seems to me, therefore, that emphasis should be put upon work—more work and better work, instead of upon leisure—more leisure and worse leisure.

"At another point our ministerial friends fail to comprehend one of the most vital factors of our industrial progress. 'Labor representation' is a beautiful phrase with a real appeal. It is susceptible to many interpretations and in some instances it is erroneously thought of. In most factories where considerable numbers are employed in America today there is some form of so-called labor representation. That is inevitable, because upon it the fullest co-operation depends.

"But it should be clearly understood that anything resembling the sovietization of American industry is repugnant to the American theory of democracy. When individual or corporate ownership of property ceases to carry with it the exclusive responsibility for its control within the law, then property rights will cease to exist except as a dream.

"Labor has the same opportunity to acquire representation in the control of a corporation as any other element in society has, and it should not expect a greater opportunity. It can acquire that representation in the control by acquiring through the purchase of stock partial ownership of the enterprise.

"The man who operates a machine in a factory and gets paid for it has no more right by that fact to participate in the actual management of the property than has the iceman who cools his water, the doctor who keeps him in physical condition, the city government which protects his political rights or the many others who directly or indirectly contribute to the success of that plant.

"It should be understood also in this connection that no

Southern or American industrial employer challenges the right of any group of men, whether they labor with their hands or with their brains, to organize for the legitimate purposes of self-protection and self-advancement. But when any organization, labor or other kind, interferes, through processes of intimidation or otherwise, with the constitutional rights of property, or of other citizens to work when, where and under whatsoever conditions they please, then that organization can claim no moral right to existence for such purpose. The supremacy of American industry owes itself more to the insistence of the American employer upon the freedom of the individual than to any other one thing. The closed union shop is a monstrosity which will never be tolerated in America until this nation relinquishes altogether its attachment to those peculiar ideals which have made it the leader of the world.

"If, therefore, the South would profit from the experience of the older industrial sections, let it maintain at every cost the open shop, so that all men shall have an equal opportunity to work and earn and live happily. Let it keep its statute books free from that character of social and industrial legislation which came into other parts of our country upon the waves of foreign immigration. Let us say with determined voice to the agents of discord and the sowers of strife that in the light of our American ideals we shall keep Southern industry free from foreign influences. This will be comparatively easy until in the wake of our industrial expansion there follows the inevitable tide of immigration. We are now a homogeneous people, about 95 per cent on the whole pure Anglo-Saxon. We believe in the religion of our fathers, in their political ideals and in those institutions which they set up for our protection and guidance. Within the boundaries of these convictions and of these conceptions of social, moral and industrial properties we will welcome from whatever source such co-operation as may be given in the development of a mutual understanding on the part of all of us, and of a unanimity of thought with reference to those fundamentals of American life from which we shall not swerve."

Texas Sands of Great Value.

Austin, Texas, April 25—[Special.]—Discoveries of various kinds of minerals and mineral substances in Texas are being constantly reported to the bureau of economic geology of the University of Texas, according to E. H. Sellards, associate director. Samples of bentonite have just been received from Bell county, bentonite being a clay originating usually from the alteration of volcanic ash.

"Unexpected values sometimes exist in common things," says Mr. Sellards. "Perhaps of the materials about us none is more frequently passed over as worthless than are the sands. The sands in Texas are used to an amount approximating \$3,500,000 a year. These sands find a variety of uses, the most common being for concrete and mortar; also for glass manufacture, and another use is for molding sand. At the present time there are 50 or more foundries in the State using molding sand."

Tests are being made by the bureau of economic geology of various sands such as may be used for molding-sand purposes.

West Virginia Town Plans Water System.

Cedar Grove, W. Va.—Details for the installation of a water system for the Town of Cedar Grove, of which Homer A. Thurman is mayor, are being considered with the purpose of voting on a bond issue to pay construction costs. The mayor desires to secure estimates on a system to include the alternative of deep well or a gravity supply and tank or reservoir storage.

The German-French Potash Combine—How We Should Meet It.

By CHARLES WILLIAM DABNEY, Ph. D.

The Government filed an injunction suit under the Anti-Trust laws in the United States District Court at New York on April 7 against the German Potash Syndicate, three French potash societies and their representatives in this country. The German Potash Syndicate is the well-known association of all the potash producers in Germany. This combination, which has its headquarters in Berlin and is regulated by the German Government, controls the output and fixes the prices of the products of all the potash mines in that country. This is the combine which exploited our American farmers for 40 years before the war.

Three French societies—the Societe Commerciale des Potasses, the Mines Domaniales de Potasse and the Societe Anonyme des Mines de Kali—are united in a similar combination for the same purpose. These two great combines have pooled their interests and made agreements for the division of the American trade between them.

A number of American corporations, including several fertilizer manufacturing companies, have acquired interests in the German mines. In addition to this, both the Germans and the French established selling agencies in this country. The agency of the German companies, the Potash Importing Company of America, New York city, has been in existence for a number of years. It is understood that the French companies now have a similar agency here for the distribution of their products in this country, and that these two agencies have agreed, under the direction of the foreign combination, upon prices to be charged for potash within the United States. In other words, these European combines propose to project a great monopoly of potash, built up in Germany and France, into our country.

These are, briefly, the facts gathered from the injunction petition filed by our Department of Justice against the representatives of these several combinations known to be at work in New York perfecting their new scheme to exploit American farmers on a plan which, for effrontery as well as for skill, surpasses anything we have heretofore encountered.

Besides naming the German Syndicate and the three French societies, the injunction mentions five German officers and agents of the German Syndicate, three French and one American, agents of the French societies, with the addresses of their respective offices in New York who are here managing this business. It also gives the names of the two leading men—the president and vice-president of the Potash Importing Corporation of America, which is co-operating with these foreigners in fastening this monopoly upon the American people. E. K. Howe is the president and H. A. Forbes is the vice-president and general manager of this Importing Corporation, both residents of New York city.

The Government claims to have abundant evidence of the illegality of this organization under the Anti-Trust laws. It is planned in Europe and projected into America for the distinct purpose of controlling the prices of a material we must have and can, at the present moment, get nowhere else in the quantity we require.

We produce only some 25,000 short tons of potash (K₂O) in this country. We used in 1925 over 1,000,000 tons of

commercial potash salts, containing about 275,000 tons of K₂O, 92 per cent of it for fertilizer. The demand is increasing with the development of intensive agriculture and would be four times as great if fertilizers were concentrated and made as cheap as they should be. Of this 1,000,000 tons, used in the United States now, 95 per cent is obtained necessarily from this German Syndicate and these French societies now united in one combine. They are the only source from which we can get the large supply of potash we need. We are their largest customers. German farmers use a great deal of potash and their Government, through a special board, directs the prices they shall pay. Through taxation the German Government derives large revenues from potash sold abroad. It, therefore, stands behind this Syndicate, which is in reality thus a German Government concern.

The French societies are not known to be connected with the Government, but it is known that the larger part of their product is sold in the United States. These sales they now make through one exclusive agency, as the Germans do through the importing corporation. From the close of the war to August, 1924, the French societies and the German Syndicate sold potash to the different importers in this country independently of each other, with the result that the prices were reasonable. But, since 1924, the German Syndicate and the French societies have divided the sales of potash in this country, with the result that prices have gone up very much. The last agreement between the Germans and French is said to allow the German Syndicate 66 per cent and the French societies 33 per cent of all the requirements of the United States. All prices, terms and conditions for the sale of potash within the United States by their respective selling agencies in New York are fixed by the boards of the German Syndicate and the French societies in Europe, and potash cannot be obtained from them except through these agencies.

The injunction petition charges, moreover, that foreign officers, named and now in this country, are trying to create a corporation under the laws of one of our States to act as the single exclusive selling agency, to take the place of the two agencies they have here now. In other words, the Potash Importing Corporation, representing the German Syndicate, and the agency of the French societies in New York are to be merged into one company to handle the products of both to the exclusion of all other importers. This new agreement, the petition says, dates from December 29, 1926, and is to go into effect May 1, 1927, and hold for 10 years. In other words, the German and French potash combine has made plans which, if allowed to be carried out, will control absolutely the prices, terms and conditions of the trade in 95 per cent of the potash sold in our country for 10 years at least.

We have known some of this before, but it is hard to believe that this European combine for the control in our country of the trade in a great necessity of agriculture would dare to attempt to organize a monopoly like this. These are the essential facts, however, stated in the petition for an injunction filed in the District Court of New York by the United States Department of Justice.

The plans of the German-French combine, described in the Government petition, are not new to those who have followed the history of this trade. They conform exactly to the methods that the Germans have been pursuing ever since the German Potash Syndicate was formed, about 1880.

This Syndicate, which was under German Government regulation, has always controlled production and fixed prices.* As a result the potash industry was, down to the war, next to the dye industry, the most profitable one in Germany. The plan described in the petition is merely an effort to extend the trading methods of this Syndicate.

As long as Germany controlled Alsace-Lorraine it repressed in large measure the export of potash from that region. Since Alsace-Lorraine has been turned over to the French and the companies there threatened to become their competitors, the Germans have brought them into the combination. Some potash has been mined in Spain, but its exports are so small that it does not appear to be of sufficient importance to be taken into this combine.† We thus are left totally dependent upon this foreign combine for 95 per cent of our potash. At a time when we should be developing our fertilizer industry very rapidly and using more and more potash, we are facing a situation which means that we shall get only the low-grade salts that Europe does not want or pay such prices as the combine shall dictate.

There can be little doubt that the injunction requested by the Department of Justice against this new exclusive selling agency of the German-French combine will be granted and that our people will be permitted to buy directly from Europe. But this will not destroy the European combine. Probably there is nothing we can do as a Government to prevent the Germans and French from keeping up this combination for the control of the terms, prices and conditions of the sale of potash to our importers and manufacturers in this country. To be sure, the German-French representatives declare that they only desire to improve the method of handling potash for the benefit of the American farmer, and aver that they will make the price a reasonable one. They even offer to submit to price regulation by our Government. This, of course, our Government cannot do. It has no price-fixing powers. The President has recently made it clear that he, at least, will not have a hand in fixing the price of any product or commodity. In our present condition, we must get our potash from the combine, and we know from the experience of 40 years what it will do to us—just what any other monopoly, American, French or German, would do—demand "all the traffic will bear." For even if we are permitted to buy directly from Europe, there is nothing to prevent this combine from controlling the whole business and fixing prices, just as it proposes to do through a New York agency. Moreover, Eastern capital and manufacturers on the Atlantic Coast will continue to be interested with the Germans. It is evident, therefore, that the injunction will not help the situation very much. What, then, is our remedy?

The only permanent remedy for the situation, the only way for us to secure a continuous supply of potash in the future at fair prices, is for us to develop our own potash deposits. That we have abundant resources of potash in Texas and New Mexico has been explained in these columns repeatedly. These deposits were discovered over 10 years ago. Why have we not developed them? We made a great effort to do this during the war, when we were cut off from the German supply. Our home production of potash reached about 200,000 short tons, containing about 55,000 tons of K_2O , in 1918. But when the Germans dumped their accumulated supply upon us at prices one-half of what they were before the war, as they did for several years, our potash producers in the far West had to abandon their production, with the result that last year only about 40,000 tons of crude

potash was produced. Does not this show what a foreign monopoly will do to us?

Recognizing the ability of the German Syndicate to crush out this new industry, American producers then sought to have a law passed by Congress creating a tariff on potash. They were defeated by the fertilizer companies on the Atlantic Coast and the agents of the German Syndicate, who frightened our farmers into believing that such a tariff would greatly increase the price of fertilizers. Influenced by the agents of the Syndicate and our own importers of potash, the Farm bloc of the time moved Congress to reject the tariff proposition. As a matter of fact, the tariff, if the whole of it were paid by the farmers, would not have increased the price of ordinary fertilizers over 50 cents a ton, and the average price of fertilizers has advanced since that time from \$5 to \$10 a ton. So, also, we have ample evidence that the German Syndicate has now secured the co-operation of some of our greatest fertilizer companies, as well as of the Potash Importing Corporation of New York city, and that they have been and are active in discouraging in every way possible the development of our American potash deposits. It is evident, thus, that the only permanent salvation for the American farmer is in the development of our own potash resources.

Various conditions besides these have caused us to go very slowly in developing these Western deposits. Searles Lake, which produced most of the potash we got during the war, is located in California; the natural brine plants in Nebraska are also remote from the largest fertilizer consumers. The Government has no public lands in Texas. All the land bearing potash in that State is owned by Texas, its institutions, or private companies and individuals, and our Government had no authority under the existing laws to explore it. A special Act of Congress was necessary to authorize the United States Geological Survey and the Department of Commerce to explore for potash on State and private lands in Texas. The first Act passed for this purpose in 1926 contained provisions which were entirely impracticable, so the law had to be amended by the last Congress. The result is that only since March 4 of this year have we had a law under which our Government could do anything to help develop the enormous reserves of potash known to be found in Texas. Unfortunately, even this latest Act does not provide sufficient money to accomplish much. It appropriates only \$100,000 a year for five years "for the purpose of determining the location, extent and mode of occurrence of the potash deposits in the United States"—a ridiculously small amount for so great a purpose. The Geological Survey has reported repeatedly that there is a possibility of finding potash in minable quantities in a region in these two States, at least 200 miles long and 100 miles wide. Absolutely dependent upon a powerful foreign combination for the potash needed by our farmers in an increasing amount to make fertilizers, Congress makes this absurdly small appropriation to explore the greatest potash field in the world; for, thus it is described by our United States Geological Survey.

The Geological Survey and the bureau of mines of the Department of Commerce are at work, doing the best they can with this small appropriation, exploring the Government land in southeast New Mexico, and they tell us that they expect soon to start an exploration at some point in Texas. As \$100,000 a year will only put down one or two core drills to the required depth of 1500 or 2000 feet, the chances are that it will be a very long time before the Government will accumulate enough information to locate a mine.

Under these conditions, why should not the landowners in this region unite to explore their own properties for potash? This is precisely what was done in France and Germany when they first developed their potash mines. The

*For the history of this Syndicate, see Trade Promotion, Series No. 33, Department of Commerce, entitled "Potash, Significance of Foreign Control of Trade In."

†Same reference.

University of Texas and the Texas public schools own extensive areas in the potash field. Certainly, Texas should explore the land belonging to its own institutions.

There also are strong economic reasons why these different landowners, State and private, should unite in exploring this promising territory for the purpose of finding the best location for a mine and then creating it. As soon as we begin to produce potash, the German-French combine will certainly reduce its prices so as to hold the market on the Atlantic Coast. Our potash is in the far West, and probably they will hold that market indefinitely. Moreover, at the present time, the amount of fertilizers used in the West and on the Pacific Coast is limited, with the result that the initial market for potash there will not exceed 150,000 tons of commercial potash annually. This amount could easily be produced by one or two good mines. As a result of the general exhaustion of the soil and the development of the beet-sugar industry in the West and of the vegetable and fruit interests of the Gulf Coast, the Southwest and California, the use of fertilizers in that part of our country will increase rapidly. The only thing that has held back the use of fertilizers in this region has been the high cost of fertilizers, which had to be imported from the East. With the development of the phosphates of Idaho, the production of nitrates from the lignites of Texas and North Dakota, only potash is needed to make the concentrated fertilizers demanded in this vast Western country. This was explained in a previous article in this paper.

Fertilizers can never be produced in the West in the quantities needed there until these Western resources of potash, phosphate and combined nitrogen are developed. Why, then, should not the land companies and private owners of potash lands unite in making an exploration, find the best location and then put down the first mine in this region? And why should not Western capital, say, in Chicago, St. Louis, Kansas City or San Francisco, take hold of these phosphate, lignite and potash deposits and develop them, preparatory to the establishment of great fertilizer factories to supply this Western demand? It is too much to hope that the Government will be able to explore this vast territory in any reasonable time. Only in this way will it be possible to develop this greatly needed industry in a scientific and economic way and produce the potash at right prices and in the proper amounts required to meet the needs of our Western agriculture and horticulture.

Price of Chilean Nitrate Coming Down.

A prospective cut in the prices of Chilean nitrate is a matter of great interest to the United States, especially to cotton producers. Of the 2,520,000 metric tons of nitrate produced by Chile in 1925, the United States bought 1,100,000 tons, at a cost of about \$52,000,000. According to the report of a representative of the Department of Commerce in Chile, the producers will not sell through the Nitrate Producers Association, which has heretofore controlled sales and fixed prices, but will permit competitive selling from April 14 for shipment after June 15. Chilean nitrate producers realize that they must compete with Germany and the other nations now producing synthetic nitrogen.

Agents of Chilean nitrate producers have been in America recently, looking up the prospects for making ammonia and nitrate here, which would take the place of their nitrate. American chemists appear to have convinced them that America can make all the nitrate it wants from lignite, coal and natural gas, largely by the Haber-Bosch process. This action on the part of the Chilean producers is recognition of America's ability to make its own nitrate, but Chile will not continue the low prices, unless the United States does produce its own nitrate.

Concentrated Fertilizers From Germany.

The representative of the Department of Commerce in Berlin reports that German manufacturers are preparing to make concentrated fertilizers of different composition and grades for export and that they are looking to the United States as the chief market for them. They have learned how to make synthetic nitrate so economically that they propose to go into the business on a large scale. Germany has already almost given up Chilean nitrate and is shipping quantities of synthetic nitrates in the form of calcium nitrate and ammonia salts.

Germany has an unlimited supply of potash, which it proposes to use in these concentrated fertilizers. It is not so well supplied with phosphate, but imports a large amount from Florida. The plan is to use German synthetic nitrate and potash and to import American phosphates and concentrate them, and then to combine the three in different forms of concentrated fertilizers to sell to the United States and other nations. America has phosphates already and Americans ask, Why not develop the Texas potash, establish American synthetic nitrate plants, and make these concentrated fertilizers at home?

A concentrated fertilizer proposed to be sent America is "Nitrophoska," a mixture of diammoniumphosphate and potassium nitrate and containing over 50 per cent of available plant food. German chemists have been studying American fertilizers and aver that they contain only 15 per cent of plant food, out of which 9 per cent is phosphoric acid, which is disproportionate to the other plant food elements. They believe they can compete by making a 50 per cent plant food product. Their method of producing this and similar concentrated fertilizers has been perfected and it only remains for the Potash Syndicate and the Nitrogen Syndicate to agree as to the basis of manufacture. At present, the Nitrogen Syndicate is buying its potassium from the Potash Syndicate and producing these concentrated fertilizers. A combination of the two is proposed to manufacture them upon a vast scale.

British Visitors to the South.

Richmond, Va., April 25.—Senor Don Francisco Sanchez Latour, Minister of the Republic of Guatemala to the United States, will be one of the diplomats who will visit Richmond on May 17 to meet a party of 20 British business men who will come to the United States as guests of Virginia during May. At a dinner in honor of the party all Virginia's trade interests, except those in the Central States, will be represented. The trip starts at Washington May 11 and will end at New York on June 7, after visits to Virginia, North Carolina, West Virginia, Kentucky, Ohio, Indiana, Illinois and Michigan.

Book About Asheville and Vicinity.

The industrial bureau of the Chamber of Commerce at Asheville, N. C., has issued a very handsome and instructive bulletin, finely illustrated, the front-cover page carrying the impressive inscription, "Industry Grows and Prospers in the Asheville District." The cover illustration is done in colors, but the pictures within are in clear, clean and accurate white and black. There is a careful analysis of the resources of Asheville and Western North Carolina, showing the definite opportunities for the establishment of industrial plants requiring various forest products, non-metallic minerals, metals, food products, textile materials, etc. There is a great abundance of general information, all of which is entertaining as well as valuable.

Baltimore Seeks Foreign Trade Convention.

In anticipation of the annual convention of the National Foreign Trade Council at Detroit, May 25, 26 and 27, the Baltimore Association of Commerce has decided to press a strong movement for the selection of Baltimore for the convention in 1929, an understanding being prevalent that Houston, Tex., will be selected as the convention city next year. A committee from Baltimore, backed by guaranty of ample financial provision, will attend the Detroit convention, headed by James Carey Martien, president of the Association of Commerce.

Before deciding definitely on this project the Association referred the subject to a committee composed of W. Frank Roberts, Bethlehem Steel Company; George H. Warren, manager of the Chesapeake & Potomac Telephone Company; George M. Shriver, vice-president, Baltimore & Ohio Railroad; Thomas E. Cottman and John E. Boisseau, National Union Bank. After investigation and deliberation, this committee recommended that an invitation from Baltimore should be pressed and that all necessary funds be raised for the convention.

Steps will be taken at once to obtain \$50,000 from State, city and business sources, and no doubt is entertained in the Association that the money will be forthcoming. The selection of Baltimore, it is felt, not only would be of tremendous value to both the city and the visitors, but also would be a triumph for the South, the convention last year having been held at Charleston, S. C., and next year to be held at Houston. Between 2500 and 3000 of the leading business men, in all lines, of the United States usually attend these conventions, and also many men of prominence from many other nations and countries.

Joint Meeting of Cotton Manufacturers.

Co-operation between various units in the industry will be the keynote of discussions at the joint meeting of the American Cotton Manufacturers' Association and the National Association of Cotton Manufacturers at Hotel Traymore, Atlantic City, on May 12, 13 and 14. The meeting will be featured by a dinner on the evening of the 13th, at which Stuart W. Cramer, William B. MacColl, James P. Gossett and Walker D. Hines will be the speakers. Mr. Cramer, who with Mr. MacColl is a joint president of the National Council of American Cotton Manufacturers, will preside and Mr. Gossett, president of the American Cotton Manufacturers Association, will be toastmaster. Mr. Hines, president of the Cotton Textile Institute, will discuss the activities of the Institute and its program for the year.

Southern Progress As Shown in Construction News Columns of Manufacturers Record.

Industrial, building and general development activities in the 16 Southern States in the first three months of 1927 show a total of 19,952 items published in the construction columns of the MANUFACTURERS RECORD. The notices include 8,604 industrial development and 5,640 building items; in addition there were 1,424 announcements of the organization of new financial corporations and the sale of bonds, and 3,751 machinery, proposals and supplies wanted items.

The accompanying summary giving the totals for the various classes of work in January, February and March shows the varied scope of construction and building activity in the South. The items cover every phase of industrial development, highway and bridge building, the erection of dwellings, schools, churches, apartment houses, hotels and office buildings, as well as the announcement of new financial corporations and the voting of bond issues by districts, counties,

states, towns and cities. They thus form an accurate information bureau on the organization of new business enterprises, the building operations of new and established concerns and the industrial and allied activities throughout the South.

The reports for the first three months include 2127 road and street construction notices, giving this classification first place. Bridge, culvert and viaduct items, closely allied to road and street work, totaled 775 for the same period. Construction of dwellings is represented by 1596 items, placing this classification second, and this total does not include any individual project involving the expenditure of under \$10,000. Miscellaneous enterprises ranks third with 1541 items.

	Totals for Jan.	Totals for Feb.	Totals for Mar.	Totals for Jan.- Mar. (Inc.)
Industrial Developments:				
Airplane plants, stations, etc.....	7	8	7	22
Bridges, culverts, viaducts.....	225	203	347	775
Canning plants.....	12	22	18	52
Clayworking plants.....	6	7	12	25
Coal mines and coke ovens.....	14	9	10	33
Concrete and cement plants.....	5	13	18	36
Cotton compresses and gins.....	14	18	29	60
Cottonseed oil.....	9	6	10	25
Drainage, dredging and irrigation..	17	13	33	63
Electric light and power.....	94	130	150	374
Fertilizer plants.....	4	4	6	14
Flour, feed and meal mills.....	8	10	11	29
Foundry and machine plants.....	21	23	19	63
Gas and oil developments.....	73	100	153	326
Ice and cold storage.....	35	57	57	149
Iron and steel plants.....	2	2	2	6
Land developments.....	209	246	286	741
Lumber enterprises.....	32	45	48	125
Metal-working plants.....	4	3	2	9
Mining.....	19	29	34	82
Miscellaneous construction.....	34	51	59	144
Miscellaneous enterprises.....	450	506	576	1,541
Motorbus lines and terminals.....	11	15	15	41
Motorcars, garages, filling stations..	149	167	189	505
Railway and street railways.....	9	6	15	30
Railway shops and terminals.....	9	6	15	30
Road and street construction.....	493	648	986	2,127
Sewer construction.....	113	112	183	408
Shipbuilding plants.....	1	1	1	3
Telephone systems.....	28	22	35	85
Textile mills.....	47	54	100	201
Water-works.....	115	115	169	399
Woodworking plants.....	27	31	36	94
	2,206	2,683	3,625	8,604
Building:				
Association and fraternal.....	39	44	64	147
Bank and office.....	102	104	106	312
Churches.....	167	188	242	597
City and county.....	85	108	123	316
Dwellings.....	578	475	743	1,596
Government and State.....	26	19	20	65
Hospitals, sanitariums, etc.....	58	82	80	220
Hotels.....	194	195	305	694
Miscellaneous.....	56	63	72	191
Railway stations, sheds, etc.....	22	10	24	56
Schools.....	201	194	320	715
Stores.....	158	142	196	496
Theaters.....	34	40	34	108
Warehouses.....	40	39	48	127
	1,560	1,708	2,377	5,640
Financial:				
Bond issues proposed.....	208	254	365	827
Bond issues sold.....	103	90	97	290
Building and loan associations.....	19	17	8	44
New financial corporations.....	83	80	100	263
	413	441	570	1,424
Machinery, proposals and supplies				
	907	1,316	1,528	3,751
Total	5,176	6,143	8,100	19,419
Fire Damage	232	104	197	533
	5,408	6,247	8,297	19,952

Construction Soon on \$2,500,000 Power Plant on Pecos River.

Girvin, Tex.—It is understood that work will soon begin on a \$2,500,000 power plant and dam to be constructed on the Pecos River, near Girvin, by the Pecos Valley Power & Light Co. of Dallas, recently incorporated. Among the incorporators are Q. C. Taylor, C. H. Gardner and Hy Byrd, all of Austin; the directors include B. J. McCuiston, Fred M. Deardorff, B. M. Gallagher, H. W. Elliott and Doswell Jones, all of Kansas City, Mo.

The Power Situation in the Southern Appalachian States.

Power Production and Resources of the Southern Power Province.

By THORNDIKE SAVILLE.*

Number 2.

In last week's issue of the MANUFACTURERS RECORD the writer traced the development of the major power companies operating in the States of Alabama, Georgia, Kentucky, North Carolina, South Carolina, Tennessee, Virginia and West Virginia, and outlined the methods of generating and transmitting power in the region which was denominated the "Southern Power Province." In the present article data are given to

*Professor of hydraulic and sanitary engineering, University of North Carolina; chief hydraulic engineer, North Carolina Department of Conservation and Development.

show the past growth in power production in this region, the probable trend in future power demands and the undeveloped water-power and fuel resources of the Province which are available to supply those demands.

Power Output—Figure 1 shows graphically the relative amounts of power produced in the several States of the Southern Power Province from 1920-1925, which covers the period during which detailed statistics have been collected by the United States Geological Survey. All of the statistics on power output contained in this and accompanying diagrams are compiled from official figures collected by the

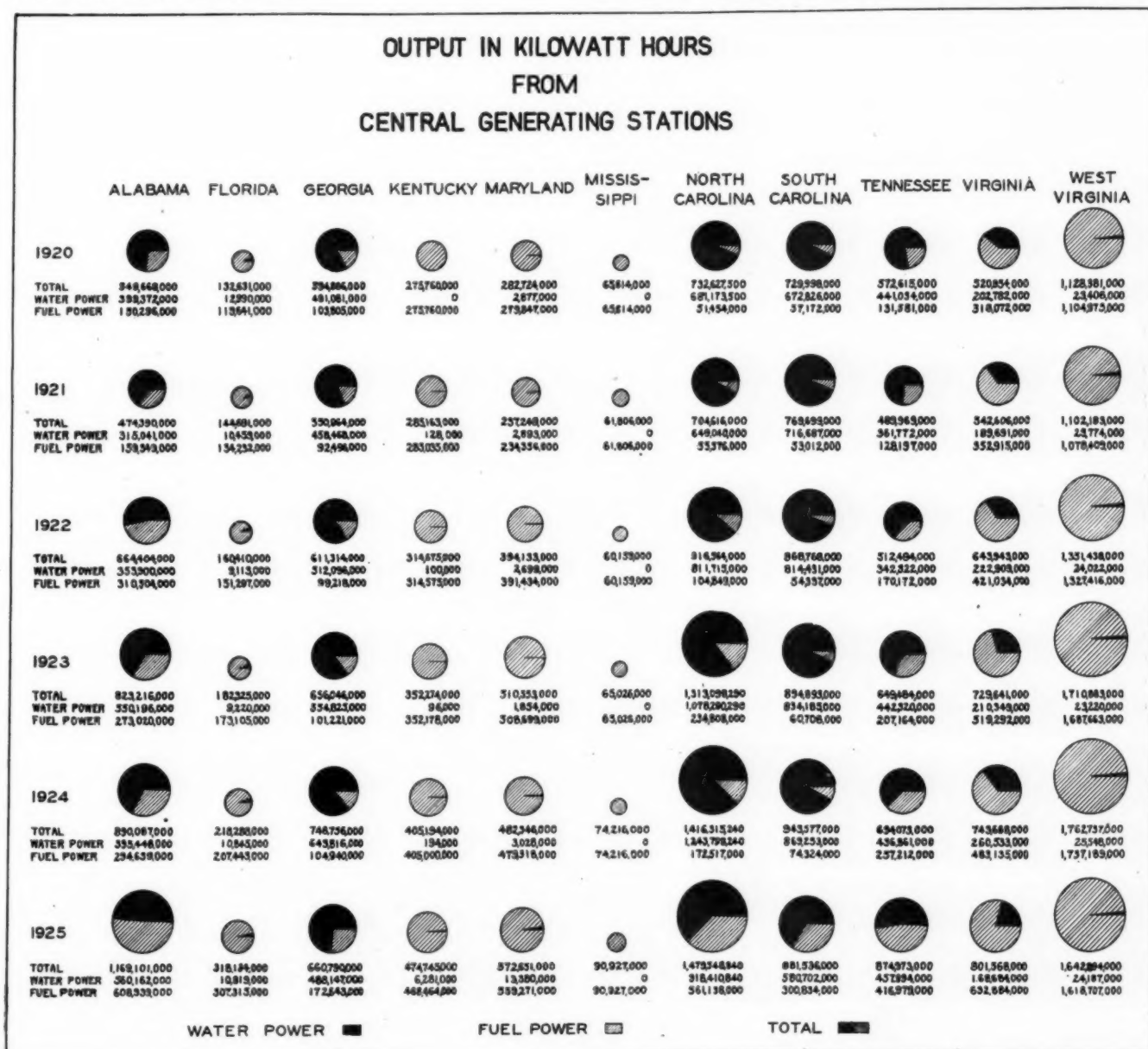


FIGURE 1.

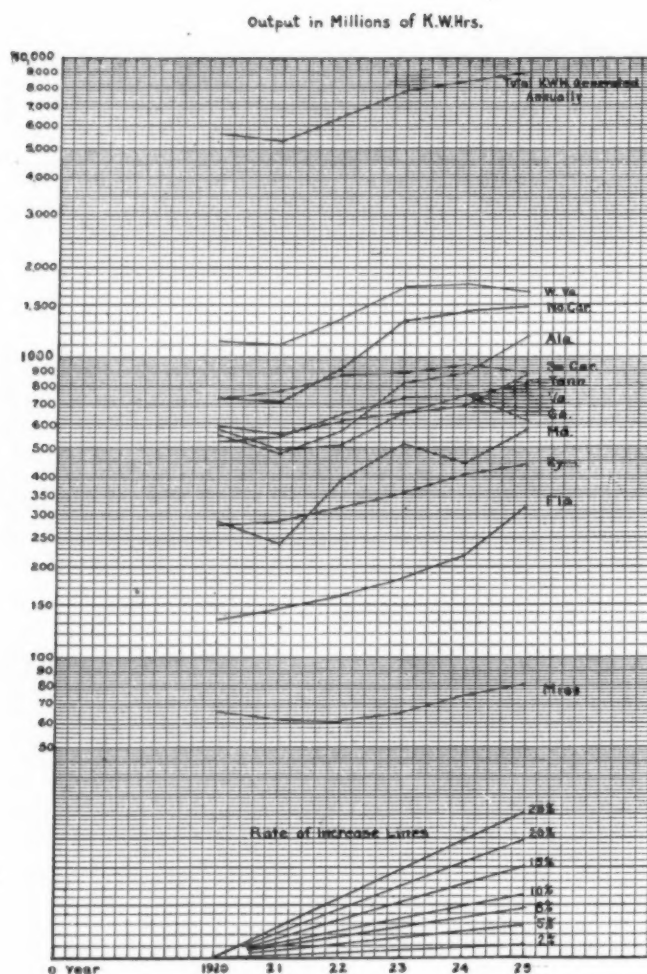


FIGURE 2.

Survey, except that for North Carolina there has been added the entire output of the great plants of the Tallahassee Power Company, only part of which is used for public-utility purposes. These plants produce some 612,500,200 kilowatt-hours annually, and this should be included in power output totals when comparing the production by States, since no similar plants exist in the other States.

Figure 2 shows the total output from each State, arranged to indicate rates of change from year to year. Figures 1 and 2 are readily analyzed and no detailed discussion of them will be presented here. Attention is called to the marked increase in the past two years in proportion of total power produced by fuel in the water-power States of North Carolina and Tennessee. The actual increase in the amount of coal thus used shows over 100 per cent increase in North Carolina from 1924 to 1925. A more or less similar situation exists in Alabama, Georgia and South Carolina, although the large increase in fuel-power output in Alabama is due, in part, to the power generated at the Gorgas and Sheffield steam plants, and made available for use in other States, particularly Georgia and North Carolina.

This tendency to generate a marked increase of the total

power by fuel is further shown by the curves on Figure 7, which summarize the data for all the States. In spite of a falling off in rate of increase in total power output from 1923 to 1925, there is a striking increase in rate of production of fuel-power for the region as a whole. (See curve Kilowatt-Hours Generated by Fuel, Figure 7.) This is due, in part, to the extraordinary drouth of the past two years, which has been quite widespread over the South, and in part to the fact that total power demands have exceeded the ability of storage reservoirs to supply normal deficiencies in stream flow in the dry months. This situation will be remedied in part by the great reservoir of the Alabama Power Company at Cherokee Bluffs and by additional storage being constructed by the other power companies. However, several of these companies have constructed very large steam-reserve plants during the past two years, and while, with the better distribution of rainfall that is likely in the next few years, there may be a slightly less percentage production of fuel-power, there seems little likelihood, as power demands grow, that much more than 50 per cent of the total power output in the region will come from water-power. In 1925 over 64 per cent of the total output was from fuel, and even without the inclusion of West Virginia over 45 per cent of the total output was from fuel.

Two facts should be borne in mind in connection with the statements in the preceding paragraph. The first is that, notwithstanding the increase in percentage of power produced from coal in the Southern Power Province, this percentage is less than that for any other region east of the Rocky Mountains, as shown by Table 1. The second fact is that the undeveloped water-power resources of this region are greater than those of any other region east of the Rocky Mountains, as is also shown on Table 1 and discussed in more detail later.

TABLE 1.
PERCENTAGE OF TOTAL OUTPUT PRODUCED BY FUEL IN
1925, AND PER CENT OF UNDEVELOPED
WATER-POWER RESOURCES.

Region	Per cent of output by fuel	Per cent of undeveloped water- power resources based on stream flow 50% of time (U. S. G. S. figures)
New England States.....	66.0	3.60
Middle Atlantic States.....	71.7	10.35
East North Central States.....	89.7	2.53
West North Central States.....	69.0	3.35
Southern Power Province States....	64.3	11.75
West South Central States.....	98.6	1.61
Mountain States.....	16.7	28.19
Pacific States.....	15.1	38.62

The output of the principal power companies of this region for each year since 1919 is shown on Figure 3. Table 2 shows the output generated and purchased by these companies in 1925. Power is purchased from one another over the interconnected transmission system.

Figure 4 shows the effect of the large, new steam-power stations constructed in the Southern Power Province during the past three years. The operation of these stations has, of course, increased greatly the total output by fuel, but on account of their modern design and corresponding high efficiency they have served continually to decrease the average amount of coal required to produce a kilowatt-hour. That these stations represent the best practice is indicated by the

TABLE 2.
POWER OUTPUT OF THE LARGER INTERCONNECTED SOUTHERN POWER COMPANIES, 1925.
(Data from Electrical World, April 24, 1926.)

No. of company on map	Name of company	Total output in kw. hours	Generated, kw. hours	Purchased, kw. hours	Per cent purchased	Rank in U. S.
8	Southeastern Power & Light Co. (Alabama Power Co. group).....	1,196,244,494	1,137,299,342	58,945,152	4.9	12
3	Southern Power Co.....	1,187,872,330	1,140,253,730	47,618,600	4.0	13
9	Tennessee Electric Power Co.....	654,488,668	648,899,318	5,589,350	0.9	28
5	Georgia Railway & Power Co.....	435,441,973	275,864,812	159,577,161	36.6	39
2	Carolina Power & Light Co.....	305,596,701	185,043,105	120,553,596	39.4	50
27	Virginia Electric & Power Co.....	304,400,743	292,259,898	12,140,845	4.0	51
22	Appalachian Electric Power Co.....	292,000,000	285,300,000	7,000,000	2.4	53
7	Columbus Electric & Power Co.....	204,811,841	136,684,576	68,127,265	33.3	70
	Tallahassee Power Co.....	612,500,200				

fact that in 1925 an average of only 1.87 pounds of coal per kilowatt-hour was required, whereas for the United States as a whole 2.1 pounds per kilowatt-hour was needed.* The saving in coal from 1920 to 1925 represented by this increase in efficiency was 6,170,000 tons, as shown by Figure 4.

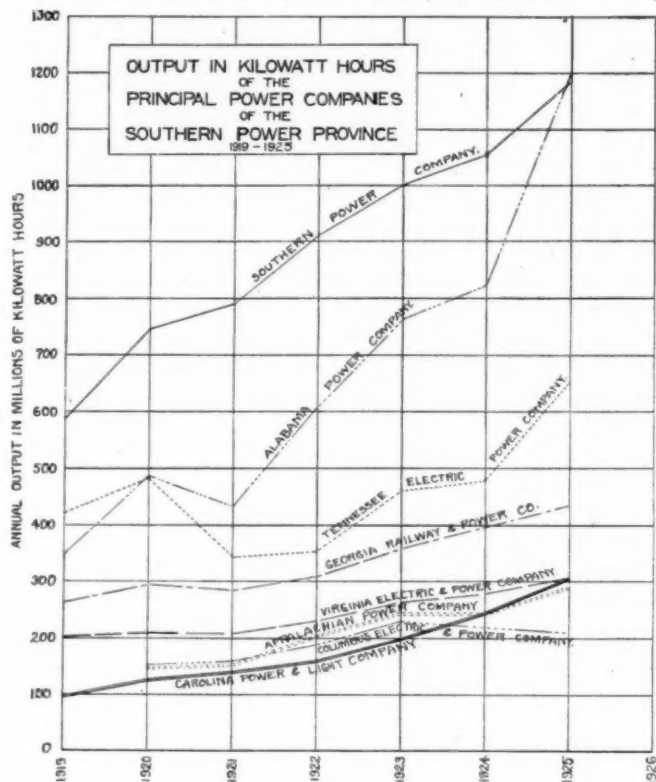


FIGURE 3.

The statement is often made that the power demands of the South are due chiefly to one industry—cotton manufacture. Figures 5, 6 and 7 disprove this. Figure 5 shows official data collected by the United States Department of Commerce giving total horsepower in industries by States. The total in 1923 was 4,461,209 horsepower. Of this, as shown by Figure 6, only 537,000 horsepower was in spindles. If we add to this the (approximately) 24,450 horsepower in looms, we have a total of 561,450 horsepower in cotton mills, or about 12½ per cent of the total power used in industry. The relation of growth of total power in industry to that in spindles is shown on Figure 7, where it is indicated that the average annual rate of growth of power in cotton spindles is almost the same as the average annual rate of growth (about 2.5 per cent per year, 1909-1923) of total power in industry, showing that the rate of growth of cotton spindles is a fair index of the rate of growth of industry in the South, and that growth of industry as a whole in the South has kept pace with the growth in the cotton industry. Furthermore, the rate of increase of total power output (over 20 per cent per year, 1907-1923, excepting 1921) exceeds the rate of increase of power in industries (2.5 per cent) so greatly that it is apparent that the great majority of new industries are obtaining their power from public-utility companies. These facts, of course, will not be wondered at by those who have read in the various publications of MANUFACTURERS RECORD of the great strides in chemical industries, iron, coal, feldspar and mica mining, etc., but graphical confirmation of the fact from a power standpoint is interesting.

Future Power Development and Distribution—Figures 2 and 7 show graphically the total power output in kilowatt-hours, both by individual States and the total for all the States of the Southern Power Province. The data has been plotted

on semi-logarithmic paper in order to bring out the relative rates of increase better than can be done by arithmetic plotting. Rate of increase lines are also shown on the diagrams. It will be observed (Figure 7) that from 1907 to 1923, inclusive, considering total output of all States, the annual rate of increase exceeded 20 per cent, with the single exception of the year 1921, when the general industrial depression caused a decrease. For the year 1924 the rate of increase in power output declined to 6.2 per cent and in 1925 increased to 8.6 per cent. These relatively low rates of total increase for 1925 are shown on Figure 2 to be due chiefly to an actual decrease in output in West Virginia (due to the coal strike) and in Georgia and South Carolina (due to the excessive drouth). In States whose chief reliance is on coal-power, as Mississippi, Florida, Kentucky and Maryland, or which were able to supplement deficient water-power from adequate steam reserves, as Alabama and Tennessee, the rate of increase in general exceeded 20 per cent. In the other States, industries were considerably curtailed during the height of the drouth.

Manifestly the rate of increase lines for the past two years have been affected by special conditions, and with the creation of additional steam reserves and storage now under construction will not be affected by similar causes after 1926. What, then, is a reasonable rate of increase in power output to assume for the region? A very exhaustive study of the power situation in New England made in 1924 by the Associated Industries of Massachusetts indicated general growth of from 15 per cent to 20 per cent for the decade 1925-1935. It is a great pity that the Southern power and

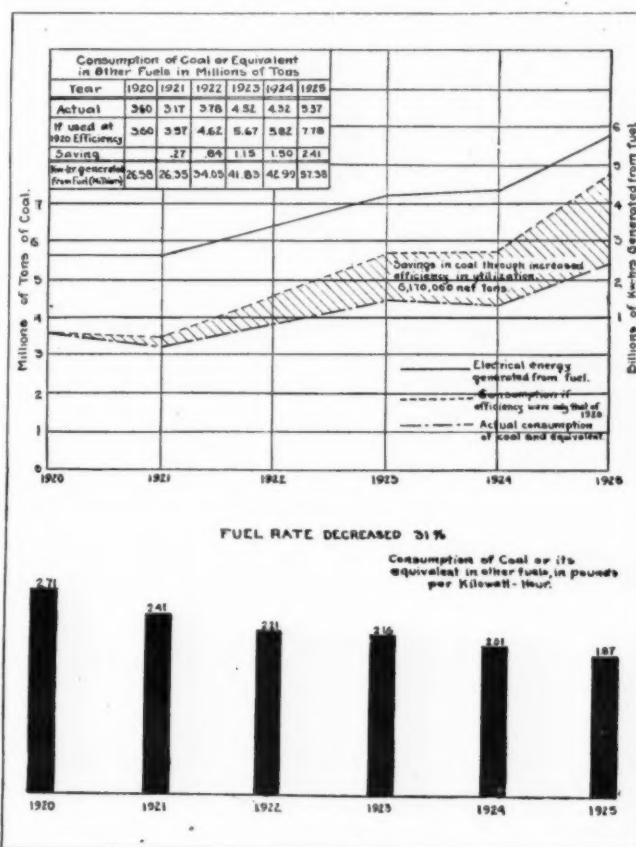


FIGURE 4.

manufacturing interests have not yet become sufficiently homogeneous in thought and action to institute a similar survey. The writer has analyzed such data as is available, including population growth, per capita use of electric energy, power in industry, present and potential central-station customers, urban and rural population with and without present electric service, potential undeveloped power, postal receipts,

*Electrical World, September 18, 1926, page 613.

cotton-spindle growth, power rates, labor supply and labor laws, possibilities of railroad electrification, extension of high-tension transmission lines to States such as Mississippi, Louisiana, Florida, etc., as affecting probable future power demands in the South. Any discussion of the analyses of these factors is impossible here, but the conclusion has been reached that the average annual rate of increase in total power output for the Southern Power Province is likely to exceed 12 per cent until 1930 and may be conservatively estimated at 10 per cent for the period 1930 to 1935. This will mean a total output in 1930 of some 15,750,000,000 kilowatt-hours, or an increase of about 6,825,000,000 kilowatt-hours over the 1925 output. A further increase of 9,600,000,000 kilowatt-hours is indicated between 1930 and 1935. Assuming

power systems. As it stands today Muscle Shoals (installed capacity 260,000 horsepower) can produce in an average year about 320,000,000 kilowatt-hours at a 55 per cent load factor. This is a pretty small proportion of the new power required by 1930, less than 5 per cent. However, in conjunction with

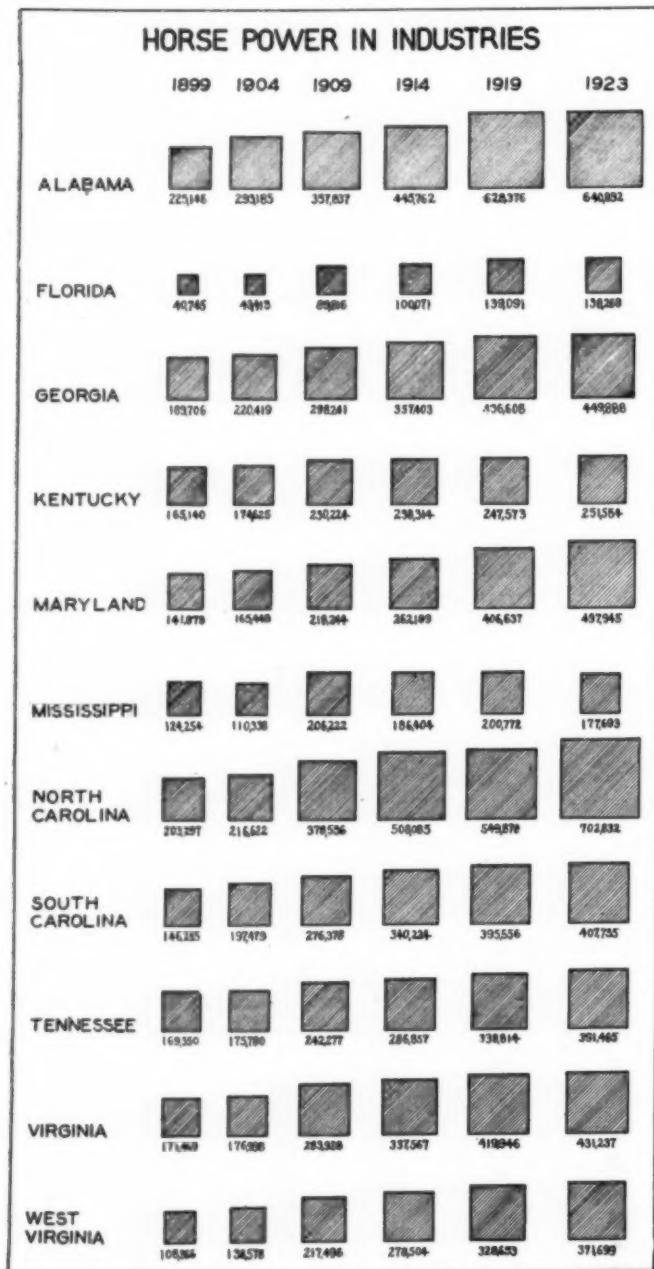


FIGURE 5.

300 operating days per year and 50 per cent load factor, there will be required to supply the above output an addition of about 2,540,000 horsepower by 1930 and about 3,580,000 horsepower more by 1935.

It is pertinent here to insert a brief note regarding the part that Muscle Shoals should play in helping to supply this future power demand. At the same time this description will serve to illustrate the practical working of the interconnected

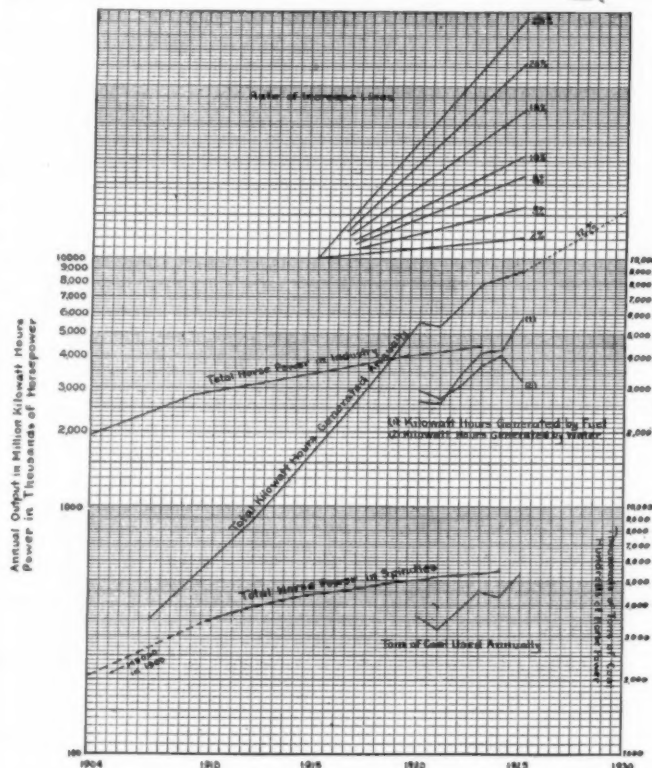


Figure 7. CHARACTERISTICS IN THE SOUTHERN POWER PROVINCE.

the steam-reserve plant at Sheffield (Nitrate No. 2, capacity 80,000 horsepower) an output of 650,000,000 kilowatt-hours is possible on a 55 per cent load factor. If the plants are tied in with the interconnected power systems, due to diversity of load and operation of storage reservoirs elsewhere, these plants can operate on an 80 per cent load factor and will produce 860,000,000 kilowatt-hours annually, an increase of 210,000,000 kilowatt-hours, which is equivalent to adding an 80,000-horsepower hydro plant. This increase would be due to the fact that while there was high water on the Tennessee and Muscle Shoals was producing to capacity, storage reservoirs elsewhere would be shut down and power would flow eastward over the interconnected high-voltage transmission lines. When water in the Tennessee was low, the storage reservoirs in Alabama, Georgia and North Carolina would be opened and excess power generated by them would flow westward. Furthermore, local fluctuations in power demand can be met by transferring power from one end of the interconnected network to the other. This means that less standby capacity is required to meet peak loads on any one system, thus decreasing capital cost and increasing the load factor. This ability of the combined interconnected systems to absorb fluctuations in power demand is the only way that the full capacity of the Muscle Shoals ultimate installation of 590,000 horsepower can be utilized economically. With headwater storage and steam-reserve facilities supplied by other power companies and the high load factor consequently made available by the interconnected power zone, Dams 2 and 3 at Muscle Shoals are estimated as capable of producing ultimately 2,000,000,000 kilowatt-hours of primary power annually at a cost below that at which hydro power is being generated at most of the larger plants today.* It is hardly

*Data in this paragraph is taken largely from a report to the Chief of Engineers, United States Army, by Major Max C. Tyler, formerly in charge of construction of Wilson Dam and Power House.

probable that this entire amount of power can be economically absorbed by the present interconnected systems, but by the time it is available there will be additional power lines from the Muscle Shoals region to the west and north.

So long as possible and economical, the new power demands of the Southern Power Province will be met by base-load hydro plants, with steam auxiliary, as is done now. Based on present tendencies, we may expect about 60 per cent of the new horsepower installed between 1926 and 1930 to be hydro-power, a ratio which will probably decrease to at least 50 per cent by 1935. This means approximately 1,525,000 horse-power additional in hydro developments by 1930, and an addition to this of some 1,800,000 horsepower in hydro by 1935. Is this amount of undeveloped water-power available in the Southern Power Province, and can it be developed with reasonable economy?

We may investigate this interesting question in two ways. The first is by utilizing estimates of the United States Geological Survey for potential water-power. These estimates are shown graphically on Figure 8. The figures to be used

in estimating plant development are those shown as power available 50 per cent of the time.

These indicate a total potential power of about 6,450,000 horsepower, from which we may deduct 2,450,000 horsepower now developed (as of July 1, 1926) to obtain 4,000,000 horsepower as the probable limit to new hydro plants in the region. Upon this basis the undeveloped water-power resources are sufficient to meet the needs for new power only until 1932 or 1933.

The above method of investigating potential power resources is inadequate, because it is based on stream flow without regulation by storage (except in a few cases), and assumes 24-hour use of power. The tendency everywhere is to develop headwater storage, as has been done to such a marked extent on the Tallulah, Catawba and Tallapoosa rivers. Such storage increases the run-of-river power by from 30 to 100 per cent. Thus the Bridgewater storage on the Catawba produces 90,000,000 kilowatt-hours at plants below.*

Accordingly, not having available data on possible storage

*It is proper to state that the engineers of the United States

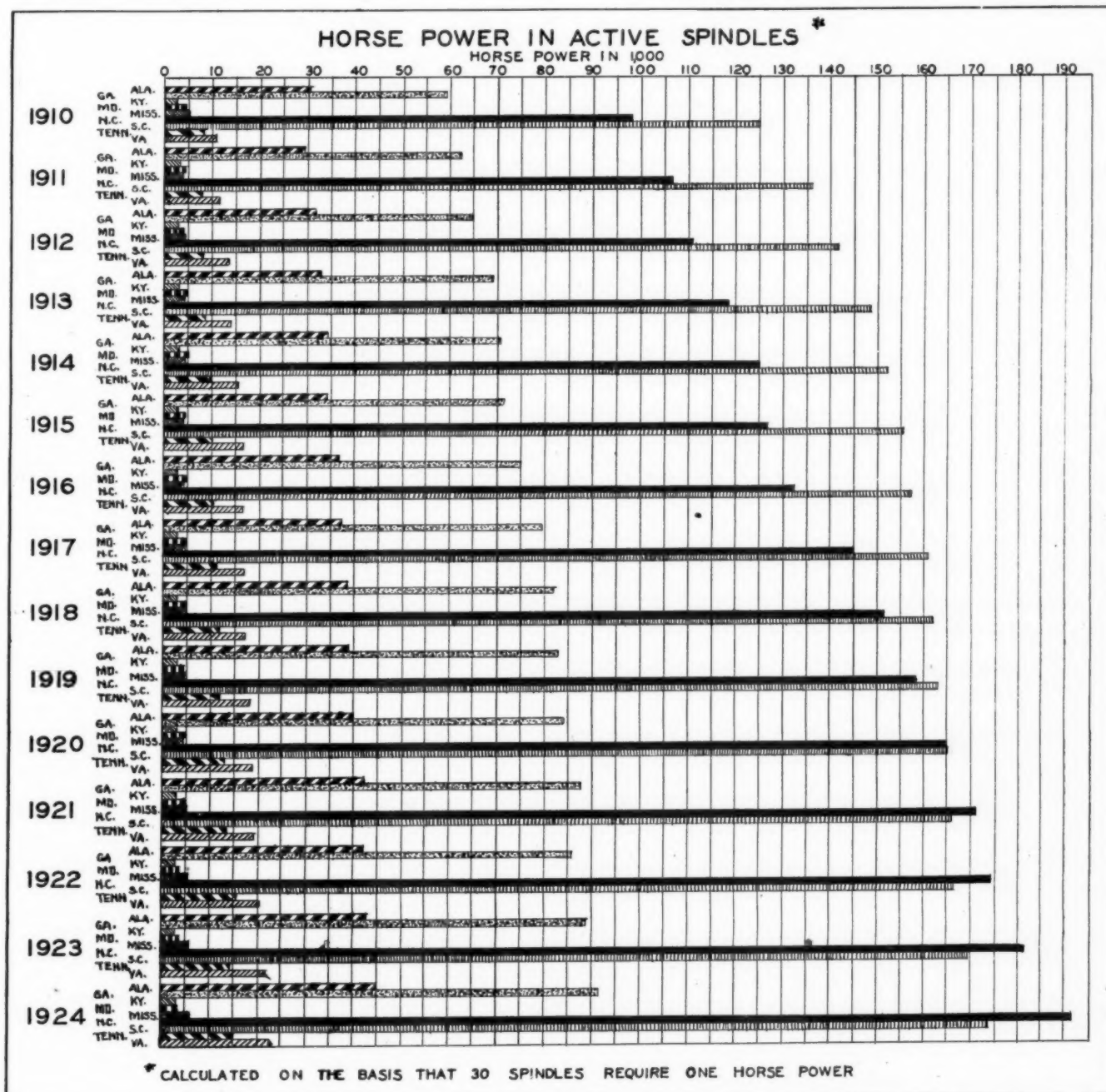


FIGURE 6.

Geological Survey are fully aware of the disadvantages in the method of estimating potential water-power resources which has been used in the past. About a year ago a sub-committee of American Engineering Standards Committee was formed, with the title "Committee on Rating of Rivers for Power Purposes." The United States Geological Survey was sponsor for this committee, and a report is nearly ready revising the bases somewhat on which rivers shall be rated for power purposes and taking into account the effect of storage.

sites on many of the rivers in the States being considered, we may list known undeveloped water-powers which have

received sufficient engineering study to determine their potentialities with reasonable exactitude, and in this way also arrive at an estimate of the potential power resources of the region. Thus, in North Carolina, with which the writer is most familiar, there is developed some 542,000 horsepower, and there is now under construction or authorized for immediate development about 293,000 horsepower, making a total of 825,000 horsepower soon to be in operation in this State.

Table 3. FEDERAL POWER PROJECTS IN SOUTHERN POWER PROVINCE.

Project Number	Name of Applicant	State	Stream	Counties Involved	Approximate Location	Horsepower		Proposed Use	Present Status	Period in Years	Date of Completion
						Primary	Estimated Installed Capacity				
52	City of Dothan.....	Ala.	Choctawhatchee R.	Geneva.....	Chalkers Bluff.....	3,000	6,000	Municipal	Lic. Iss. 11/13/22 Am'd 6/30/22	50	9/1/26
82	Alabama Power Co.....	Ala.	Coosa River.....	Dale.....	Duncans Riffle.....	21,760	120,000	Public Utility	Lic. Iss. 6/27/21 Am'd 8/31/22	50	1926
276	Houston Power Co.....	Ala.	Choctawhatchee R.	Dale.....	Davis Site.....	1,500	4,800	Public Utility	Lic. Iss. 8/14/23 Am'd 2/11/25	50	10/1/25
349	Alabama Power Co.....	Ala.	Tallapoosa River.....	Chambers, Elmore, Randolph, Tallapoosa, Calhoun, St. Clair, Etowah	Martin Dam.....	45,000	135,000	Public Utility	Lic. Iss. 6/7/24		
525	Peoples Hydro-Elec. Power Co.	Ala.	Coosa River.....		Lock No.	6,000	36,000	Public Utility	Prelim. Per. Iss. 5/23/25.....	2	
598	South. Pow. & Light Co..	Ala.	Tennessee River.....			30,000	80,000	Public Utility	Prelim. Per. Applied for License Applied for 5/15/25		
609	Muscle Shoals Hydro-Elec. Co.	Ala.	Tennessee River.....	Lauderdale, Colbert		60,000	150,000	Public Utility			
610	Mississippi Power Co.....	Ala.	Tennessee River.....	Tishomingo, Macon, Lauderdale, Ala.		66,000	160,000	Public Utility	License Applied for 5/15/25		
618	Alabama Power Co.....	Ala.	Coosa River.....	Elmore, Chilton, Coosa.	Wetumpka (above)...	30,400	72,000	Public Utility	License Granted.		
303	Benjamin H. Hardaway...	Fla.	Chipola.....	Calhoun.....	Altha.....	1,760	6,000	Public Utility	Prelim. Per. Iss. 9/12/22 Extended 8/17/24	3	
641	E. L. Hill & C. L. Spencer	Fla.	Suwannee River, St. Mary's River	Ware, Clinch, Charlton, Echols, Ga.; Baker, Union, Nassau, Columbia, Hamilton, Dixie, Lafayette, Taylor, Madison, Suwannee, Fla.	Georgia & Florida....	38,000	90,000	Public Utility	Prelim. Per. Granted 10/20/26		
670	Econifina Power Co.....	Fla.	Econifina Creek.....	Bay.....		1,500		Public Utility	Prelim. Per. Appl. for 11/9/25		
682	West Florida Power Co.....	Fla.	Ocklocknee River.....	Alachua, Columbia		2,200		Public Utility	Preliminary Permit Granted		
699	Fitkin Utilities, Inc.....	Fla.	Santa Fe River.....					Public Utility	Prelim. Per. Appl. for 3/13/26		
485	Columbus Elec. Pow. Co., J. J. Williams, O. M. Beard & Others	Ga.	Chattahoochee R.	Worth, Lee, Crisp	Bartletts Ferry.....	28,000	80,000	Public Utility	License Issued 12/15/25.....	50	12/31/26
659	Twin City Power Co.....	Ga.	Savannah River.....		Modoc, S. C. Existing Dam 18"			Public Utility	Prelim. Per. Appl. for 11/21/25		
746	Louisville Hydro-Electric Co.	Ky.	Ohio River.....		Louisville Ship Canal	39,780	135,000	Public Utility	Prelim. Per. Appl. for 9/29/26		
389	Cumberland Hydro-Elec. Power Co.	Ky.	Cumberland River	Pulaski, McCreary	Cumberland Falls.....	63,700	200,000	Public Utility	License Issued		
473	Kentucky North. Pow. Co.	Ky.	Licking River.....	Edmonson, Hart	Falmouth.....	12,000	24,000	Public Utility	Prelim. Per. Iss. 3/24/24.....	2	
537	Louisville Hydro-Elec. Co.	Ky.	Green River.....		Mammouth Cave.....	7,000	16,000	Public Utility	Prelim. Per. Iss. 6/26/24.....		
539	Kentucky Hydro-Elec. Co.	Ky.	Kentucky River.....		U.S. Dams, 1-7, Inc.	1,345	3,700	Public Utility	Prelim. Per. Iss. 5/28/25.....		
540	Kentucky Hydro-Elec. Co.	Ky.	Ky. R. N. Fork.....		Airdale.....	10,000	20,000	Public Utility	Prelim. Per. Iss. 5/28/25.....		
545	Offutt, Loughridge, Gunn, Hiffner	Ky.	Green R., Barren R.		U.S. Dams, 4, 5, 6 G.R.	1,300	8,600	Public Utility	Prelim. Per. Iss. 5/28/25.....	22	
551	Ky.-Tenn. Lt. & Pow. Co.	Ky.	Ky. R. S. Fork.....		U.S. Dams, 1 B.R.	7,500	15,000	Public Utility	Prelim. Per. Iss. 5/28/25.....	3	
566	Kentucky Hydro-Elec. Co.	Ky.	Cumberland R.....	Jackson, Clay	Booneville.....			Public Utility	Preliminary Permit Issued		
700	Kentucky Hydro-Elec. Co.	Ky.	Cumberland R.....		Bear Mouth Wolf Cr.			Public Utility	Prelim. Per. Appl. for 3/25/26		
728	Robert G. Gordon.....	Ky.	Cumberland R.....		Carthage, Celina.....			Public Utility	Prelim. Per. Appl. for 7/14/26		
729	Kentucky Hydro-Elec. Co.	Ky.	Cumberland R.....		Creelsboro.....			Public Utility	Prelim. Per. Appl. for 7/14/26		
405	Susquehanna Power Co....	Md.	Susquehanna R.....		Conowingo.....	44,700	500,000	Public Utility	Lic. Auth. 1/2/25 Am'd 5/23/25	50	
432	Pigeon River Power Co....	N. C.	Big Pigeon River.....	Haywood.....	Mt. Sterling.....	35,000	70,000	Public Utility	License Issued 11/1/26.....	50	
530	Thompson Power Co.....	N. C.	Hiwassee River.....		Appalachia, N. C. McFarland, Tenn.	250,000		Public Utility	Prelim. Per. Appl. for 9/-/26		
667	John A. Parker.....	N. C.	Cape Fear River.....	Harnett, Cumberland				Public Utility	Prelim. Per. Appl. for 11/-/25		
693	Town of Highlands.....	N. C.	Cullasagee River.....	Macon.....	Highlands.....	250	800	Municipal	License Approved 5/14/26.....	50	
715	A. A. Shuford & F. M. Laxton	N. C.	Wilson Creek.....	Caldwell.....	Lenoir.....	2,640	5,900	Public Utility	Prelim. Per. Iss. 10/20/26.....	3	
199	Columbia Rail. & Nav. Co.	S. C.	Santee & Cooper River	Berkeley, Orangeburg	Ferguson.....	42,000	122,000	Public Utility	License Iss. 7/17/24 authorized	50	
516	Lexington Water Pow. Co.	S. C.	Saluda River.....			20,000	48,000	Public Utility	Preliminary Permit Issued		
535	Central Power Co.....	S. C.	Broad River.....		2 sites above Columbia	128,800	38,400	Public Utility	Prelim. Per. Granted 5/23/25...	2	
361	Holston River Power Co....	Tenn.	Holston River.....		3 sites near Kingsport	45,000	74,000	Public Utility	Preliminary Permit Applied for		
381	Tennessee Hydro-Elec. Co.	Tenn.	Clinch River.....	Anderson.....	Mouth Emory River		50,000				
			Clinch River.....		Bridge L. & N. Rail.		30,000				
			Clinch River.....		Mouth Powell River		130,000				
			Clinch River.....		Bridge Southern R. R.		150,000				
			Powell River.....		Sherman Site.....		30,000				
630	East Tenn. Develop. Co...	Tenn.	Tennessee River.....	Hamilton.....	Sale Creek Site.....		44,000				
			Tennessee River.....	Hamilton.....	White Creek Site.....		60,000				
			Tennessee River.....	Rhea, Meigs.....	Marble Bluff Site.....		100,000				
			Tennessee River.....	Roane.....	Coulter Shoals Site.....		44,000				
			Clinch River.....	Loudon, Blount.....	Senator Site.....		47,000				
			Clinch River.....	Roane.....	Melton Hill Site.....		36,000				
			Clinch River.....	Knox, Anderson.....	Clinton Site.....		54,000				
			Clinch River.....	Anderson.....	Clinch No. 3 Site.....		30,000				
			Clinch River.....	Anderson.....	Clinch No. 2 Site.....		100,000				
			Powell River.....	Grainger.....	Powell Site (Combs).....		50,000				
			Clinch & Powell R.		7 Developments.....		26,500				
686	Union Carbide Co.....	Tenn.	Holston R. S. Fk.	Sullivan, Washington	10 miles above Kingsport		60,000	Public Utility	Preliminary Permit Applied for Prelim. Per. Appl. for 1/14/26		
718	The Federal Power Co. of Tenn.	Tenn.	Holston R. S. Fk.	Jackson, Clay...	Carthage and Celina...			Public Utility	Prelim. Per. Appl. for 6/-/26		
726	Tennessee East. Elec. Co.	Tenn.	Holston R. S. Fk.					Public Utility	Prelim. Per. Appl. for 6/30/26		
728	Robert G. Gordon.....	Tenn.	Cumberland River					Public Utility	Prelim. Per. Appl. for 7/14/26		
732	Tennessee East. Elec. Co.	Tenn.	Nolichucky					Public Utility	Prelim. Per. Appl. for 7/31/26		
342	Virginia West. Pow. Co....	Va.	James River.....	Rockbridge.....	Balcony Falls.....			Public Utility	License Issued 2/26/23.....	50	
602	Roanoke-Staunton R. P. Co.	Va.	Roanoke River.....	Mecklenburg.....		15,000	50,000	Public Utility	Prelim. Per. Granted 3/2/26.....	2	
634	Roanoke River Power Co..	Va.	Roanoke River.....		Talbot's Falls.....		50,000	Public Utility	Prelim. Per. Granted 3/2/26.....	1	
732	South Side Power Co.....	Va.	New River.....	Pulaski.....				Public Utility	Prelim. Per. Appl. for 6/23/26		
739	Appalachian Power Co....	Va.						Public Utility	Prelim. Per. Appl. for 9/4/26		
343	W. Va. Pow. & Trans. Co.	W. Va.	Cheat River			175,000	600,000	Public Utility	License Issued 2/26/23.....	50	
379	West Va. Power Co.....	W. Va.	Dry & Shavers Fks			26,000	125,000	Public Utility	Prelim. Per. Iss. 1/25/25.....	3	
497	Gauley Power Co.....	W. Va.	New River.....		6 Dams			Public Utility	Prelim. Per. Iss. 10/25/25.....	2	
			Gauley River.....	Nicholas, Fayette							
			Meadow River.....	Greenbrier.....	4 Dams	21,000	95,000	Public Utility	Prelim. Per. Iss. 4/7/25		
745	South Branch Power Co..	W. Va.	Cacapon River.....	Morgan, Hampshire	3 Dams			Public Utility	Prelim. Per. Iss. 4/7/25		
			Potomac R. S. Br.	Grant, Hardy...	4 Dams			Public Utility	Prelim. Per. Appl. for 9/27/26		

This is over 100,000 horsepower more than the United States Geological Survey figures for power available 50 per cent of the time as shown on Figure 8. In addition, there are known undeveloped sites capable of being developed for 1,000,000 horsepower, with available storage. Surveys completed by the United States Engineer Corps, under the direction of

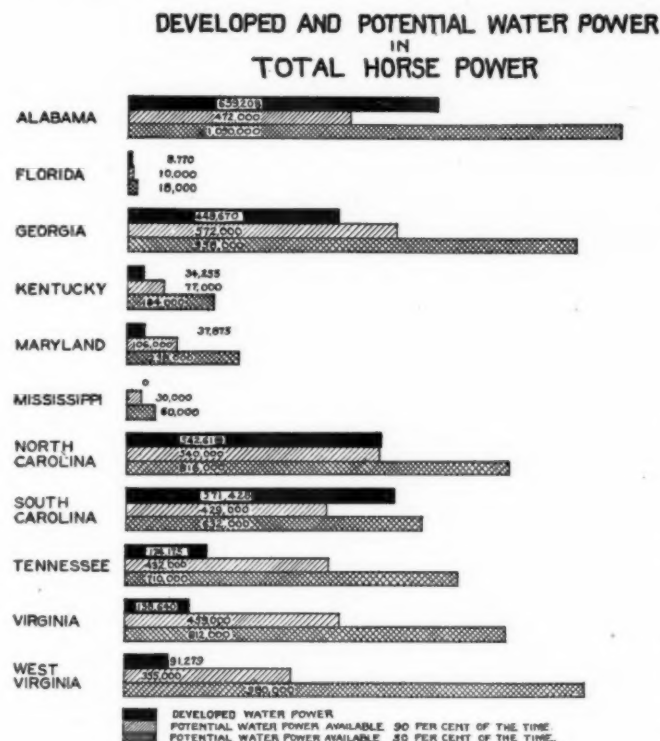


FIGURE 8.

Maj. Harold C. Fiske, indicate that 1,125,000 horsepower can be developed at 13 sites on the Tennessee, Clinch and Powell rivers. At least another 500,000 horsepower in the Tennessee basin outside of North Carolina is known to exist.* Here is a total of at least 2,625,000 horsepower, which leaves only 700,000 horsepower to be supplied from undeveloped sources in the States of the Southern Power Province other than Tennessee and North Carolina. Manifestly, more than this amount of undeveloped power exists in these States. Table 3 shows the status of applications now before the Federal Power Commission, and is further indication of the undeveloped water-power resources of the region. It is, therefore, apparent that there is little likelihood that any real dearth of hydro-power will be felt in the States of the Southern Power Province before 1940, at least.

As to the ability of the Southern Power Province to supply from its own resources the fuel-power required to meet future demands for a good many years, there is no doubt. Assuming 1.75 pounds of coal per kilowatt-hour as an average for the next 15 years, and assuming 50 per cent of the power output in that period to be from coal, there would be required about 11,000,000 tons of coal per year on the average, or 165,000,000 tons, from 1925 to 1940. In the State of Tennessee alone there are reserves estimated by the Tennessee Geological Survey to be 25,000,000,000 tons, and, of course, there are very large additional deposits in Alabama and West Virginia.

It will be apparent that the data in this article have been greatly condensed, but it is hoped that it will indicate three important facts, viz.: (1) That the Southern Power Province has sufficient water-power and fuel resources to meet the

*Most of these sites are shown by crosses on the map published last week with the first article.

probable demands of power production until 1940, based on about 50 per cent of future power requirements from each source; but that (2) after that time the South will be in much the same situation with regard to hydro-electric power as the Northeast and Central States now are, and (3) that it would be greatly to the advantage of the industrial and power interests of the region to undertake jointly a thorough study of all the factors likely to influence power growth in the next 20 years, together with an investigation of the future sources of power and methods for increasing the efficiency of power production and utilization.

All of the data shown on the various tables and diagrams of this article are from official United States Government statistics. The diagrams have been prepared by Mr. G. Wallace Smith, assistant professor of civil engineering, Engineering School, University of North Carolina.

They Turn to the Blue Book.

Believers in Jacksonville, Inc., Florida.

Jacksonville, Fla., April 22.

Editor *Manufacturers Record*:

George H. Baldwin, one of our directors, is scheduled to make a talk before the National Chamber of Commerce at a forthcoming meeting on "Business Development of the South," and all of us are co-operating in helping him gather together up-to-date information.

If your Blue Book of Southern Progress is not off the press, I wonder if you could send us some press proofs of particularly interesting features for Mr. Baldwin's information and any other data that you may have available which you think would be suitable for the speech.

If the Blue Book is off the press, won't you please have one mailed to the Believers in Jacksonville and render bill to this organization?

JAMES R. STOCKTON, President.

Addition to Oil Reserves Through Discovery of Eight New Domes in Louisiana.

Eight new salt domes have been discovered within the past few weeks within a 60-mile circle in southeastern Louisiana as a result of campaigns carried on by four major companies through use of the seismograph, according to press dispatches from Houston, Texas. These discoveries increase the potential oil reserves of coastal Louisiana 36 per cent, considering non-productive domes already known and proven fields, it is said. They increase the total number of known domes, which are yet to be developed, more than 70 per cent.

Gulf Production Co., a subsidiary of Gulf Oil Corporation, has located four new domes, Roxana Petroleum Corporation one, Union Sulphur Co. one and the Union Sulphur Co. and Standard Oil Co. of Louisiana, a subsidiary of the Standard Oil Co. of Louisiana, have jointly discovered two.

The new dome discoveries mean a great addition to the future oil reserve and at the same time insure no immediate flood of oil on an already weakened crude market due to the fact that all of the close in acreage around the domes is thoroughly blocked by the discovery companies, according to the statement.

Dates for Meeting of National Manufacturers.

President John E. Edgerton of the National Association of Manufacturers has announced the dates of the annual convention of the Association to be held in Chattanooga this fall as October 24, 25 and 26. Decision was reached last week at a meeting of the executive committee in New York.

Coral Gables—The City—A Romance of Facts.

By WALTER L. THURSTON.

Promptly, according to schedule, at 10.10 on the morning of March 21 last, amid the blowing of horns and the applause of a large crowd of officials and citizens, the first train of the Seaboard Air Line Railway pulled in to the city of Coral Gables, Fla. Speeches by city officials and officials of the Coral Gables Corporation marked the event.

The great dream of George E. Merrick was nearing fulfillment—a dream of a city without a scar; a city set in the midst of beauty, where one may enjoy large, open spaces, bask in almost perpetual sunshine and yet have all the advantages of a modern city.

Started in November, 1921, with an area of 3000 acres, Coral Gables became an incorporated city on April 29, 1925, with an area of 16 square miles of territory, or about 10,000 acres; a population of approximately 10,000, and upward of 4000 buildings. It has a commission form of government, with Robert Davidson as city manager. At the time of incorporation the improvements in the form of hard-surfaced streets, boulevards, parks, plazas and sidewalks, which had cost \$6,000,000, were turned over to the city as a gift, and when the present contracts are completed every street and sidewalk in Coral Gables, from Flagler street on the north to Sunset road on the south, will be finished without one cent of ultimate cost to the property owners of Coral Gables other than the Coral Gables Corporation.

The assessed valuation of the taxable property of the city today is \$92,250,312, with a rate of 13½ mills on 50 per cent of the fair market value of the land unimproved. Improvements are not taxed—single taxation is a fact, not a topic for discussion, in this new city of the South.

When there was much talk of enterprise being at a standstill in Florida, two of the largest contracts ever let in the State, calling for a total of \$3,800,000 to be expended in development and improvements, were awarded by Coral Gables in August and September, 1926. One was for the construction of paved streets and sidewalks, costing \$1,800,000, let to W. T. Price, Inc., and the work on the sidewalks is already 98 per cent completed and on the roads 82 per cent. The other was a contract for \$2,000,000 worth of dredging in the creation of waterways and roadbeds, let to the T. T. Sweet Dredging Company, Inc.

These contracts are symbolic, typical and characteristic of Coral Gables, progress in development work. It is a fact that not one dollar of profit has been taken from this work of city building by the officers of Coral Gables Corporation—every dollar has been put right back into the property, together with many additional dollars, for the purpose of building values and enhancing the value of property already held by private owners. At the end of 1926 Coral Gables had 110 miles of paved streets completed, with 55 miles more nearing completion; it had also 160 miles of sidewalks com-

pleted, with 90 more under way. Thirty-six miles of streets carried whiteway lighting, with 42 miles more under way. During January and February of this year permits were issued for 49 buildings, aggregating \$387,000.

The opening of 1927 saw 3262 pupils and students enrolled in the public and private schools of Coral Gables, which form a system of singular completeness, from kindergarten to university. In addition to the county, elementary school and Ponce de Leon University high school, also under the Dade County School Commission, there are a high-class military academy in Coral Gables, an academy of the Sisters of St. Joseph Catholic Order, the Montemare School, a branch of the famous school of the same name at Lake Placid, N. Y.; the University of Miami, and a number of private kindergarten schools. Primary and secondary schools furnish in every city the keenest opportunity for insight as to the makeup of that city's population and the state of its growth; figures publicly announced by the Dade County School Commission show that 60 per cent of Dade county's total increase in high-school enrollment in 1926 over 1925 is in Coral Gables' high school.

In the primary school a similar condition was revealed. In these two schools combined there were, at the end of 1926, 344 pupils transferred from other parts of Greater Miami. In addition, the registers showed 346 pupils newly registered who last year attended school in States outside of Florida. No fewer than 32 States are represented, and in the senior class at the high school are new pupils representing 17 different States. With these new students their former addresses were taken in order that their scholastic records of the 1925 semester could be checked for grading at the Coral Gables schools. These pupils represent entirely new residents of Coral Gables. All last winter they attended Northern schools. These figures establish the fact that Coral Gables is drawing on nearly every State in the Union for its permanent residential population.

The University of Miami was founded in 1925 with a planned endowment of \$15,000,000, the greater part of which is subscribed or pledged, including a gift of \$5,000,000 by George E. Merrick. It is governed by a board of regents drawn from leading educators and citizens of Greater Miami and elsewhere. It is designed to be the great Pan-American seat of learning of the South. Its faculty is one of great distinction, headed by President Bowman Foster Ashe, formerly of Pittsburgh, Pa. The university was opened on October 15, 1926, the date originally set by the board of regents, and at the opening of the second semester it had 1130 students enrolled. As the university buildings were not completed, a hotel building nearing completion was quickly transformed to meet the requirements of the students.

Spiritually, as well as in a cultural sense, Coral Gables has



VIEWS OF PONCE DE LEON BOULEVARD AND CORAL WAY AFTER ONE YEAR INTERVAL.

progressed. There are eight religious congregations organized in the city. The Coral Gables Congregational Community Church, built by George E. Merrick as a memorial to his father, Rev. Solomon Greasley Merrick, a Congregational minister of Cape Cod who came to Florida more than thirty years ago to escape the icy Northern winters, has long been an important factor in the city's life. It is a handsome structure, built at a cost of approximately \$400,000. St. Stephen's Episcopal Church, Coconut Grove, one of Dade county's historic congregations, has secured a site and plans to erect a church in the Riviera section of the city. Baptist, Presbyterian, Methodist, Roman Catholic and Universalist bodies have selected sites for churches, and are now meeting in temporary quarters.

Community organizations are also numerous and strong. There is a vigorous chamber of commerce, of which J. P. Yoder is the secretary; a taxpayers' association; an American Legion post; a Masonic club, with a lodge being organized; there are Kiwanis, Lions, City, Women's and Garden clubs, Parent-Teachers' associations, golf, tennis, Bit-and-Spur and other athletic clubs. There is a Civic Theater Association, Hotel and Apartment-House Association, Realty Board, Building Contractors' Association and a Retail Merchants Association.

The Bank of Coral Gables on January 1, 1927, had 4000 depositors, with a total of \$1,374,449.75 on deposit and \$157,000 capital and surplus. The First National Bank, opened on November 24, 1926, had 350 depositors on January 1, 1927, with \$206,917.71 on deposit and \$125,000 capital and surplus. A total of 592 occupational licenses have been granted by the city, representing 106 different lines of business. Among the industries already established are 2 ice plants, 1 ice-cream plant, 2 laundries, 4 cement-block plants, 1 machine shop, a fertilizer plant, a furniture manufactory, a novelty works, an automobile-paint shop and 4 garages. There are also an ornamental-iron plant, a beverage manufacturing and bottling plant, an electrotype company, 2 candy factories, 2 bakeries, 2 printing plants, a newspaper, a roofing plant and a new iodine plant.

On October 8, 1926, just after the hurricane, and as a relief measure to assist in community financing, a mass-meeting of the citizens of Coral Gables unanimously endorsed a plan for the city to acquire certain properties from the Coral Gables Corporation, ordinarily owned by municipalities, and to issue city bonds therefor in order that the Coral Gables Corporation might sell these bonds and thus secure the necessary funds to carry on the development and construction work in Coral Gables and thereby insure the continued growth and prosperity of the city. An appraisal committee was appointed from citizens of Coral Gables qualified as experts in such work, who recommended that the city issue bonds for the purchase of the following municipal projects:

Municipal golf course, parks and playgrounds.....	\$1,750,000
Municipal swimming pool.....	200,000
Municipal street railways and buses.....	1,782,000
New city hall.....	250,000
New fire station and equipment.....	100,000
Emergency hospital.....	50,000
Park and playground improvements.....	100,000
Municipal auditorium.....	300,000
	<hr/>
	\$4,532,000

Just two months later the citizens, by about a five-to-one majority, voted in favor of these various bond issues. When the bonds were validated \$3,732,000 worth went to the Coral Gables Corporation at par in payment for the Granada golf course, the Venetian pool and the street railway and bus system. These bonds and the remaining \$750,000 for the bond issue were eventually purchased by B. J. Van Ingen & Co., New York; Eldridge & Co., New York; Century Trust Company, Baltimore; Guardian Detroit Company, New York, and H. L. Allen & Co., New York. They netted the corporation and the city, respectively, about 93.

The street-railway system has grown to a point where it

is now carrying 155,570 people a month, and it maintains a regular and frequent service with Miami.

An interesting commentary on these bonds is found in the Chicago Journal of Commerce and La Salle Street Journal of March 12, 1927, where, in answer to the question, "Do you consider the 6 per cent gold bonds of the city of Coral Gables, Fla., a sound investment? Would also be pleased to know if the legislation in Florida is such that cities can be bonded for more than they are worth," the financial editor of the Journal said, in part:

"The 6 per cent bonds of the city of Coral Gables, Fla., are a sound issue. The total debt of the city represents approximately 8 per cent of the total assessed value of real property, exclusive of improvements, and the inclusion of improvements would bring the ratio to approximately 5 per cent of the total assessed value. High property value is explained by the fact that the city was created by a private organization and consists of a highly restricted residential community, suburban to the city of Miami. In fact, 35 per cent of the population are business men from Miami.

"The laws of the State of Florida limit the debt-incurring power of towns and cities to 10 per cent of the assessed value of real and personal property."

To obtain an adequate conception of the city of Coral Gables one should view it from the tower of the Miami-Biltmore, a \$10,000,000 hotel, operated by John McE. Bowman. From this point one can see the three broad boulevards leading into Miami, West Flagler street, Coral Way and the Tamiami Trail, the new cross-State highway which will conquer the Everglades and connect Miami with the West Coast of Florida at Fort Myers. This Tamiami Trail, which will be completed by the opening of another season, forms the northern boundary of Coral Gables. One sees from this vantage point that, instead of Coral Gables being a long way from Miami, the city of Miami has come out to Coral Gables, for it is difficult to discover any large area of unimproved land between Douglas road, which forms the eastern boundary of Coral Gables, and the tall buildings in the center of the commercial metropolis of tropical Southeastern Florida. Immediately to the south lie the two 18-hole courses of the Biltmore Country Club, and a more beautiful picture is hard to imagine.

As one walks around the tower he sees on the north the old home of Mr. Merrick's father, the original Coral Gables from which the city gets its name and the present home of the founder of this city, just a short distance beyond; on the west the new Seaboard Air Line Railway; on the south the new university buildings in the distance, and on the east the business center, with the administration building, the banks and office buildings and the new Colonnade Building, and the almost countless homes dotted over this vast area. Then it is easy to understand that the tremendous sum of \$39,292,527 has been spent in the last 24 months for building in the city of Coral Gables.

Sewer System to Cost Over \$2,000,000.

Fort Lauderdale, Fla.—Special assessment bonds aggregating \$1,485,000 have been authorized by the Fort Lauderdale City Commission for the installation of storm and sanitary sewer systems. These bonds will represent 70 per cent of the cost of the sewers, as estimates place the completed cost at \$2,121,429. Bids for construction will be received until May 17.

A sewage-disposal plant costing \$232,000 is practically complete. It will use the activated sludge treatment process and is said to be the only plant of its kind in Florida. Three main sewage-pumping stations in various sections of the city and four underground stations tie up with the plant through force mains. Solomon, Norcross & Kels of Fort Lauderdale are consulting engineers and the Charles C. Case Company, Atlanta, contractors.

Heavy Movement of Eastern Men and Money Into Textile Industry of the South.

[That New England cotton-mill interests have been headed hotfoot for the South is very generally realized, but the extent of this movement is not known as widely as it should be. It is a momentous shifting of industry, a complete relocation of a vast business which is bringing to the South many of New England's foremost textile men and many of the textile industries of New York and New England and other places.

In the Blue Book of Southern Progress, 1927 edition, published by the Manufacturers Record, there is published a detailed list of this Southward movement of the textile industries, which gives a list of those that have moved from other parts of the country into the South during the last 12 or 15 months. The story as it will appear in the Blue Book when issued about May 5 gives the following remarkable facts, worthy of careful study by the people of the whole country.—Editor Manufacturers Record.]

Thirty years ago some half a dozen or so great textile concerns of New England built branch plants in the South. Five of these mills were built as the result of an invitation extended through the MANUFACTURERS RECORD by the Seaboard Air Line to the Arkwright Club of Boston to send a committee South to investigate the opportunities for cotton-mill building. A committee of five was appointed, and as an outcome of that trip five cotton mills, each costing more than \$1,000,000, were established within the next 12 months. Gradually, from time to time, this movement has continued. During the last three or four years it has grown in volume to an extent that marks it as one of the great epochs of the shifting of industrial interests in this country. From week to week the MANUFACTURERS RECORD has, during the last two or three years, told of the purchase of Southern mill interests by New England capital and the building of Southern mills by New England and New York and Pennsylvania people. It was only a few years ago when, at a cost of about \$9,000,000, the Pelzer Mill interests of South Carolina were purchased by some of the leading mill operators of New England. This deal, which attracted wide attention, was promptly followed by the purchase by New England interests of other Southern cotton mills and the building of new mills, until within two years an investment of about \$100,000,000 of New England money was made in cotton-mill interests.

Passing over the developments at that period and coming down to the reports of the last 12 to 18 months, a summary of this movement shows its magnitude as of outstanding importance to the entire country. No such shifting of industrial interests has ever before been seen in this country, and probably never to the same extent in any other country in the world. Developments during the early months of 1927 indicate that the movement of Northern textile mills and capital to the South will continue on the same large scale as for the preceding 12 to 18 months.

Some of the major projects undertaken by outside interests in the textile industries of the South may be summarized as follows:

The Pepperell Manufacturing Company, Biddeford, Maine, completed a 20,000-spindle and 600-loom mill at Opelika, Ala., the machinery being moved from its Northern plant. Early in 1926 the Sauquoit Spinning Company of Alabama was incorporated to establish a 20,000-spindle mill at Gadsden, the machinery to be moved from a plant near Utica, N. Y. Negotiations were concluded for establishment of an underwear plant by Gardiner and Warring Company of Amsterdam, N. Y., at Florence, Ala. The Autauga Cotton Mills, Prattville, Ala., and the Montala Manufacturing Company, Montgomery, Ala., were purchased by Neuss, Hesslein & Co., Inc., New York city. Improvements were made at the Gadsden plant of the Dwight Manufacturing Company, machinery being moved from Newburyport, Mass. Work began the latter part of the year on a plant at Albany-Decatur, Ala., for the Connecticut Mills Company of Danielson, Conn., and the 32,000 spindles will be moved from Connecticut and Massachusetts. The Linen Thread Company, Paterson, N. J.,

announced plans in February, 1927, for an addition to the plant of its subsidiary, the American Net and Twine Company, at Bluemountain, Ala.

Morris & Co., Inc., of Groveville, N. J., announced plans in September for a 10,000-spindle plant at Morrilton, Ark.

The Goodyear Tire and Rubber Company, Akron, Ohio, purchased Mill No. 2 of the Cedartown Cotton and Export Company, Cedartown, Ga., in March, 1926, and contracts were awarded in July for extensive improvements, providing for a total capacity of 30,000 spindles. Some machinery was moved from Passaic, N. J. The Chicopee Manufacturing Corporation, Chicopee Falls, Mass., controlled by Johnson & Johnson of New Brunswick, N. J., is constructing a plant at Gainesville, Ga., to cost \$3,000,000 for the production of materials to be used in making bandages, etc. The Unique Knitting Company, Philadelphia, Pa., established a sport hose plant at Acworth, Ga. The Southern Brighton Mills, Shannon, Ga., a branch of the Brighton Mills, Passaic, N. J., completed a cord-tire fabric plant of 24,752 spindles and 48 looms. The Seaboard Silk Mills began work in the fall of 1926 on a silk-weaving plant at Elberton, Ga. The project is financed by the Susquehanna Silk Mills and allied interests of New York and Pennsylvania. Dean & Sherk Corporation, Detroit, Mich., established a thread factory at Lawrenceburg, Ky.

The Massasoit Manufacturing Company, Fall River, Mass., completed a unit at Lake Charles, La., for producing cellulose from rice hulls for making rayon. L. H. Gilmer Company of Louisiana, Inc., organized as a subsidiary of the L. H. Gilmer Company of Philadelphia, Pa., established a plant at Shreveport, La., estimated to cost \$750,000.

Extensive additions were made to the rayon plant of the American Cellulose and Chemical Manufacturing Company, at Amcelle, a suburb of Cumberland, Md.

The Scandinavia Belting Company of Newark, N. J., established a woven-cotton belting plant at Charlotte, N. C., moving some machinery from Paterson, N. J. The Sayles-Biltmore Bleacheries, a branch of the Sayles Finishing Plants, Inc., of Saylesville, R. I., completed a \$2,000,000 plant at Biltmore, N. C., near Asheville. Controlling interest in the Henrietta Mills of Caroleen, N. C., with branches at Henrietta, N. C., and Cherokee Falls, S. C., and the Edna Cotton Mills at Reidsville, N. C., were acquired by G. E. Huggins and associates of New York, the value of the properties being estimated at \$5,000,000. The Carolina Silk Products Company was organized at Greensboro, N. C., by North Carolina and Philadelphia interests to build a full-fashion silk hosiery mill. The Lonsdale Company, Lonsdale, R. I., owners of the Seneca Company at Seneca, S. C., moved 500 looms and 20,000 spindles to Seneca after completing necessary additions. The Appleton Manufacturing Company proceeded with the expansion started in 1925, involving the moving of 30,000 spindles from Lowell, Mass., to Anderson, S. C. The Ninety-Six (S. C.) Cotton Mills built an addition for about 20,000 spindles purchased from the Fairhaven Mills, New Bedford,

Mass. The Mount Airy (N. C.) Knitting Company purchased a building and installed machinery from the Crossingham Knitting Company, Philadelphia, Pa. McDonald & Heathcote transferred machinery from the Girard Hosiery Company, Philadelphia, to Thomasville, N. C. The National Fabric Corporation, New York city, acquired a site in February, 1927, near Charlotte, N. C., for a 100-loom jacquard silk mill. Boger & Crawford, Philadelphia, Pa., erected a 12,000-spindle mill at Lincolnton, N. C. The Greensboro Full-Fashioned Hosiery Mills, Inc., Greensboro, N. C., controlled by Philadelphia interests, announced plans in March, 1927, for a plant to involve the expenditure of about \$500,000. Collins and Alkman Company, New York city, in March, 1927, acquired A. T. Baker & Co., Inc., the combined capitalization of the two companies totaling \$15,000,000. The former company manufactures velvets in Philadelphia, while the latter operates mills in Philadelphia and Roxboro, N. C., producing velours for furniture, draperies and motorcars. Sidney M. Edelstein and associates of New York city will move a silk mill from Brooklyn, N. Y., to Union, S. C.

Thomas Henry & Sons, Inc., Philadelphia, Pa., removed all manufacturing operations to Nashville, Tenn., expending about \$225,000 for a new building. It manufactures cotton and merino yarns, high-grade jacquard loom turkish towels, bath mats, face cloths and terry specialties. The Holliston Mills, Inc., of Norwood, Mass., established a book-cloth plant at Kingsport, Tenn. The Gloria Textile Corporation, controlled by Williamstown (Mass.) interests, which established a plant at Johnson City in 1925, installed additional equipment last year. The \$3,000,000 American-Bemberg Corporation's artificial silk plant, near Elizabethton, Tenn., was completed. The High Rock Knitting Company of Philmont, N. Y., started work on a branch plant at Bristol, Va.-Tenn. Contract was awarded early in the year for the Galvez Mills at Galveston, Texas, the machinery to be moved from the Nobska Spinning Company's plant at Taunton, Mass.

Consolidation of the Lubinette Knitting Mills, Twentieth Century Knitting Mills and the Lang Knitting Mills of New York city into the Twentieth Century Rayon Textiles, Inc., with a capital stock of \$500,000 and principal office and plant at Petersburg, Va., was effected. The Crompton Company of Crompton, R. I., purchased a tract near Waynesboro, Va., for a future mill site. The Artus Knitting Mills leased a building in Bristol, Va., to transfer 40 machines from a Philadelphia plant. The Chase City (Va.) Hosiery Mill, a branch of S. S. Miller Hosiery Mills, Reading, Pa., leased a building and transferred 100 machines from Gibraltar, Pa. Titus, Blatter & Co., New York city, are erecting a plant at Charlottesville, Va., for weaving silk, rayon and mixed jacquard fabrics, to be operated as the Albemarle Weaving Company. The Viscose Corporation of Virginia completed a \$5,000,000 unit at Roanoke, Va. The Dundee Textile Company, Passaic, N. J., announced plans early in 1927 for a plant in Lynchburg, Va., to be known as the Virginia Silk Corporation. The Wearproof Hosiery Mills established a plant in January, 1927, in Lynchburg, moving machinery from Pennsylvania. M. E. Binz Company, Inc., Midland Park, N. J., purchased the Strasburg (Va.) Silk Mills.

The Viscose Company, Marcus Hook, Pa., completed a \$5,000,000 branch plant at Parkersburg, W. Va.

Bids Asked on \$800,000 Theater.

Plans are being prepared by John Ebersson, Chicago and New York, for a theater to be erected in Richmond, Va., by Loew's Inc., New York, at a cost of \$800,000, and construction bids will be received until May 12, according to advices to the MANUFACTURERS RECORD. The building will be located at 6th and Grace streets and will have a seating capacity of 2500.

Newsprint to Be Manufactured in the South.

By RICHARD WOODS EDMONDS.

A process has been developed by Arthur D. Little, Inc., engineers and chemists, of Cambridge, Mass., for making newsprint paper from gumwood and Southern pine, two of the most abundant and rapid growing of the Southern woods. The new process is reported to produce a newsprint sheet equal in quality to that now used by newspapers throughout the country, and at an appreciable saving per ton of paper. First work on the process was undertaken several years ago and was followed by a long series of experiments and commercial tests, but announcement was previously withheld pending the issue of patents and successful demonstrations. H. S. Weston, the lumber operator and capitalist of Logtown, Miss., has been associated with the Cambridge engineers throughout the development.

The significance of the announcement to the South is indicated by the following facts:

(1) While it will be many years before the supply of spruce, fir and jack pine in our Canadian and northern United States forests, available for newsprint manufacture, is exhausted, the enormous increase in demand for this class of paper has made it necessary for operating mills to use timber from more inaccessible areas at greatly increased cost.

(2) Our annual consumption of newsprint is nearly 3,500,000 tons, with a value greater than \$200,000,000.

(3) Southern gums and pines used in the new process regrow on cut-over land about four times as fast as the spruce of the North, and the South is slowly awakening to the importance of scientific forestry and reforestation of cut-over lands.

(4) There are weighty reasons, too long to enumerate here, why a large portion, if not, indeed, a major part, of the \$200,000,000 value of newsprint manufactured should and will be produced in the South.

The first experimental work was carried on in the laboratories of Arthur D. Little, Inc., where a complete experimental paper mill, including a 30-inch Fourdrinier paper machine, permitted semi-commercial scale operations. It was known that gumwood fibers do not form readily into a sheet on the paper machine, as does the spruce ground wood now universally used. By experiment it was found that the addition of small quantities of other vegetable fiber (cellulose), specially prepared, gave the desired result with the new raw material.

When the Cambridge experiments were completed successfully, gumwood cut in Mississippi was shipped to a pulp mill in Maine, where it was ground and reshipped to a nearby paper mill. Semi-bleached Southern pine sulfate pulp purchased from a Southern mill was added in small amount and newsprint paper run off.

Several test runs were made, the paper machine operating at its usual speed. The paper so made was used in regular editions on the high-speed presses of the Boston Herald and the New Orleans Times-Picayune and Item. Over 50,000 copies of the papers were distributed to the public in the usual manner, and with entire satisfaction to pressmen and publishers.

Accurate manufacturing cost figures have shown to the satisfaction of all concerned a considerable saving per ton over the average present cost in the North.

Paving, sewer and sidewalk improvement bonds in the amount of \$731,000 have been sold by the city of Orlando, Fla., J. A. Stinson, city clerk, to the Illinois Merchants Trust Company and the Northern Trust Company of Chicago at \$727,929.

\$1,700,000 Expenditure for Tampa Bridges.

By ELIZABETH DOSSER, Tampa Board of Trade, Tampa, Fla.

Expenditure of \$1,263,000 on bridges completed within the year of 1926 and two more under construction at an additional cost of \$435,000 has been made by Tampa to keep up with the city's rapid growth and expansion.

Located on Tampa Bay, Tampa is divided by the Hillsborough River, and as the city has grown the problem of providing adequate transportation facilities between the two sections has been a big one. With the completion of the bridges built last year and the two now under construction, the Hillsborough River will be spanned within the city limits by 10 bridges.

These bridges are reliable barometers of the city's growth. For years the Lafayette street bridge, in the center of the city's main business section, was the only modern, close-in bridge. In June, 1919, statistics kept by the city engineer's office show that a daily average of 8160 cars crossed the bridge daily. The records also show that in June, 1925, this daily average had increased to 39,680 cars, with this bridge still the only artery for traffic.

In December, 1926, after the opening of the Platt street and Cass street bridges, the number of vehicles using the Lafayette street bridge decreased to 25,968 cars daily, with a total average of 62,692 cars passing over the four bridges daily, including 12,856 over the Platt street, 13,859 over the Cass street and 10,009 over the Garcia avenue. Erection of these new bridges has greatly reduced the traffic congestion in the downtown business section. Lack of adequate facilities last year during the winter season often resulted in the delay of traffic for 10 or 15 minutes at a time. At present the bridges are taxed almost to capacity during the peak hours of travel.

The Platt and Cass street structures are almost identical in cost, specifications and type. Both are of reinforced concrete, with the double-leaf bascule draw and a channel opening of 80 feet. Each has a roadway 40 feet wide and two 8-foot sidewalks. The Platt street structure is 700 feet long and the Cass street one 550 feet long. Each cost \$400,000. Tibbett, Pleasant, Green & Beekman of Tulsa, Okla., were the contractors.

Michigan avenue bridge, opened for traffic January 15,

1927, was built by the Roberts Supply Company of Lima, Ohio. It is of reinforced concrete, with a swing drawspan and a channel opening of 50 feet. The bridge is 700 feet long, with a 40-foot roadway, street-car track and two sidewalks, each five feet wide. The bridge was erected at a cost of \$408,000.

The Florida avenue span, opened December 1, is of reinforced concrete of the girder type. It has a 40-foot roadway with 5-foot sidewalks and is 150 feet in length. It was erected at a cost of \$55,000 by the Roberts Supply Company of Lima, Ohio.

Replacing an old bridge, the new Fortune street span will



FLORIDA AVENUE BRIDGE, TAMPA.

be completed about June 1. It is of reinforced concrete and has a single-leaf bascule draw, with a 75-foot clear channel opening. It will be 550 feet long, with a 40-foot roadway, street-car track and 8-foot sidewalks. The estimated cost is \$400,000. The U. G. I. Company of Philadelphia is the contractor.

The Sligh avenue bridge, now under construction by the General Construction Company of Tampa, will be completed the first part of April. The bridge is of reinforced concrete, with a steel swing span and with wooden trestle approaches.



\$400,000 CASS STREET BRIDGE AT TAMPA, FLA.

The span is 150 feet long, with a 22-foot roadway and a 6-foot sidewalk on one side. Its estimated cost is \$35,000.

Expense of constructing two of the bridges, the Florida and Michigan avenue ones, was borne partly by the city and partly by private concerns in Tampa, who were anxious for the spans to be built immediately. The Michigan avenue

bridge was built with the city paying \$150,000 and the Florida Interbay Rapid Transit Company paying \$250,000. In the case of the Florida avenue structure the B. L. Hamner Company, a real estate development concern, underwrote the structure, the cost later to be assumed by the city and county sharing equally in the expense.



MICHIGAN AVENUE BRIDGE IN TAMPA, FLA.

Dedication of Penney Memorial Home Community.

On the three days ending Sunday, April 24, there were held the dedicatory services of the Memorial Home Community of the Penney Farms, near Green Cove Springs, Fla.

The community adjoins, but is independent of, the J. C. Penney-Gwinn Farms Corporation. It was built by Mr. Penney as a memorial to his pastor-father, and consists of 21 apartment buildings of the Norman type of architecture, beautiful in design and substantial in construction, together with a chapel of the same architectural type. The buildings are grouped about an open court; the chapel, at one end of the court, faces the entrance at the other end.

The total cost of the group and auxiliary plants was \$881,000. Expense was not spared in making the work substantial and enduring.

Credit for the details of the work is due to Burdette G. Lewis, vice-president of J. C. Penney-Gwinn Corporation, to Alan B. Mills, architect, to his assistant designer, Aland Krams, Arthur E. Davis, Jr., assistant to Mr. Mills and Mr. Krams, and to Dr. D. Walter Morton.

Mr. Lewis, in his presentation address, said:

"The foundation, the brick and tile work, all lumber, carpentry and floors are the work of the Penney-Gwinn Organization. The plastering, stucco and ornamental trim was performed by William Farr & Sons. The plumbing, steam fitting and electrical work was furnished by H. E. Crook & Co. of Baltimore. The roof tiles were furnished and placed by the Martindale Roofing Company of Jacksonville. The house furnishings came chiefly from Jacksonville. The movable furnishings of the church and community room came from the Tomlinson Chair Manufacturing Company of High Point, N. C. The steel sashes and steel windows were furnished by the Truscon Steel Company; the floor tiles by the Stedman Products Company. The amplifying and radio equipment are from the Western Electric Company. For the first time, it is believed, amplifying devices have been installed in a church in this country.

"Interior decorations and furnishings were planned and selected by Mr. Mills personally. The organ screens and the memorial carvings between the church and the community room were planned by Mr. Mills and Mr. Davis and executed in the Penney mill. The wood trim in the library and other equipment was designed by the same gentlemen and executed in the same way. The wood trusses of the church and living

room came from lumber grown on the J. C. Penney-Gwinn Corporation farms, was sawed and placed in position under the personal direction of Bascom Franklin.

"The radio control broadcasting equipment is connected over the wires of the Southern Bell Telephone and Telegraph Company with the Municipal Broadcasting Station of Jacksonville, Fla., WJAX, which is known as a 1000-kilowatt station operating with a wave length of 336.9. All farm houses now under construction will be equipped with a standard radio-receiving set and all existing farmhouses will be so equipped when the broadcasting work begins.

"It is planned to broadcast regularly from our control station organ and other music, addresses and farm educational information from the J. C. Penney-Gwinn Institute of Applied Agriculture. The radio should save hours of time of each farmer and inform him just when to spray his potatoes or plant peppers.

"The pipe organ has been furnished by the Aeolian Company and is the gift of Ralph W. Gwinn, Mr. Penney's business associate, as a memorial to his mother."

400-Mile Pipe Line to Be Built.

Corpus Christi, Tex.—Beginning simultaneously at each end of the line, the Humble Oil & Refining Co., W. S. Farish, president, will build a 400-mile pipe line from McCamey to its tank farm at Ingleside on the Corpus Christi ship channel. The line will be 10 and 12 inches and will have a capacity of 40,000 barrels of oil per day, construction to be handled by the company with equipment it now owns. Several months ago, the Humble Oil & Refining Co. completed a 65-mile line from the Mirando City oil fields to Ingleside, where it has built nine tanks of 55,000 barrels each with others under construction.

Erecting Hotels for Chain in Texas.

Floyd Singleton, president of the Blue Bonnet Hotel Co., Kerrville, Tex., advises the MANUFACTURERS RECORD that the first link in the Blue Bonnet chain of hotels has been opened at Kerrville. The second unit will be located in San Antonio. It will be erected by the A. H. Shafer estate at a cost of approximately \$450,000, 11 stories and basement, of reinforced concrete, brick, hollow tile and cast stone. The third unit of the chain will be located between Corpus Christi and Laredo and the fourth unit at Abilene. Paul G. Silber & Co. of San Antonio, are the architects for all Blue Bonnet hotels.

\$5,000,000 to \$10,000,000 Power Plant for Big Nitrogen Fixation Plant in Virginia.

A major undertaking in connection with the erection of the nitrogen fixation plant to be built at Hopewell, Va., by the Atmospheric Nitrogen Corp., Syracuse, N. Y., a subsidiary of the Allied Chemical and Dye Corporation, New York, will be the construction of a power plant to cost \$5,000,000 to \$10,000,000. It is understood that the Virginia Electric and Power Company, Richmond, is working with engineers of the chemical company on the power requirements of the project. It may be that the Virginia company will build a plant to supply all or a part of the power required, but no decision has been reached as yet. Again the nitrogen company may decide to build its own power plant.

Preliminary announcement concerning the nitrogen plant was published in the MANUFACTURERS RECORD of February 10. It is said that engineers have been at work for some time making surveys at Hopewell and preparing plans and specifications, so that actual construction may be started during the summer. Just where the huge electric plant will be built has not yet been decided, and it is possible that it will be located in some other section of the State and current brought to the Hopewell plant over high-tension transmission lines. Another unit in connection with the project that will involve a big expenditure will be a complete water-works to supply the needs of the plant.

Bids Invited on \$1,000,000 Art Museum.

Bids will be received until May 4 by the Board of Awards of Baltimore for the erection of the proposed \$1,000,000 art museum to be erected by the city at Wyman Park. The building will be 192 by 99 feet, fireproof, with Indiana limestone exterior and limestone and cast stone interior. John Russell Pope of New York, is the architect and Henry Vincent Hubbard of Olmstead Bros., Brookline, Mass., landscape architect.

Contractors estimating include Sinclair & Grigg, P. C. Streett Engineering Co., Williams & Armiger Building Co., G. Walter Tovell, C. L. Stockhausen Co., North-Eastern Construction Co., J. Henry Miller, Inc., John Hiltz & Sons Co. and the Consolidated Engineering Co., all of Baltimore, and the Georgia A. Fuller Co., Washington, D. C. The following are estimating on mechanical equipment: Riggs-Distler & Co., Inc., H. E. Crook Co., Inc., Blumenthal-Kahn Electric Co., Henry A. Kries & Sons Co., Federation Engineering & Construction Co., all of Baltimore, and the Standard Engineering Co., Washington.

Broom and Axe Handle Factory for Cuthbert, Ga.

Cuthbert, Ga., April 23—[Special.]—A broom and axe handle factory to employ 80 to 100 workers is being established here by E. S. Wittel & Son of Alabama and Ohio. A site has been selected on the Georgia, Florida and Alabama Railroad.

The new enterprise was secured through the efforts of Randolph County Ad Club, which has functioned as a chamber of commerce. Large tracts of timber suitable for handles have been secured. The proximity of this timber and the availability of ample hydro-electric power were the principal factors entering into the determination to locate here.

The new plant will ship its handles to the large Wittel broom factory in Ohio for the present, but it is understood that a branch broom factory will also be established here. The broom factory, when it is opened, will provide another cash crop for Southwest Georgia farmers—broom corn, which can be grown to fine profit throughout this territory, it is stated.

To Drill Potash Test Wells.

Contracts for drilling two additional potash test wells in Southeastern New Mexico have been awarded by the United States Bureau of Mines to the Sullivan Machinery Company of Chicago. Drilling is to start within 30 days. Both new locations, which are recommended by the United States Geological Survey as giving favorable indications of the existence of potash beds, lie in Eddy county.

The site of potash well No. 2 is approximately 37 miles from Artesia and 25 miles from Carlsbad. The depth to the top of the salt beds at this location is estimated at about 500 feet. Drilling will be continued to a depth of 1000 or 1500 feet. Well No. 3 is about 28 miles from Carlsbad. The depth for drilling is the same as for well No. 2.

The drilling of potash well No. 1 was completed April 9 at a depth of 1847 feet 6 inches, operations having been in progress since February. The hole penetrated the salt beds at a depth of about 850 feet. Various favorable showings of potash-bearing salts were encountered in this well.

Construction Soon on \$5,000,000 Texas Gas Line.

Weslaco, Tex., April 25—[Special.]—Much preliminary work has been done for beginning actual construction of the proposed gas line to be built by the Rio Grande Valley Gas Co., John W. Gaines, president, San Antonio, from the Miranda gas fields through the Rio Grande Valley for a distance of approximately 170 miles. Contract for the project, which will cost about \$5,000,000, has been awarded to the Hope Engineering & Supply Co. of Mount Vernon, Ohio, and P. H. De Jordan, engineer of that company, has recently made an inspection trip to the cities through which it will pass.

Plans contemplate that the line will extend from the gas field directly to Pharr and from that point will go down the valley to Brownsville, passing through San Juan, Alamo, Donna, Weslaco, Mercedes, La Feria, Harlingen and San Benito. Branch lines will run from the main line above Pharr to Edinburg, McAllen and Mission. A 12-inch line will be laid from the field to San Benito, and from there to Brownsville, a distance of 25 miles, an 8-inch line will be laid. The line will have a carrying capacity of 20,000,000 cubic feet per day.

Install 80,000 Additional Horsepower to Triple Sterlington (La.) Power Plant.

A. G. Whidden of the Louisiana Power & Light Co., Pine Bluff, Ark., wires the MANUFACTURERS RECORD that his company has begun the installation of two additional generators of 40,000 horsepower each, with complementary machinery, at its electric power station at Sterlington, La., which will triple the capacity of the plant. Ford, Bacon & Davis, Inc., of New York, who designed and constructed the first unit, which is equipped with two generators of 20,000 horsepower each, is supervising the installation of the additional units.

The first unit was completed in the latter part of 1925 and, as outlined in the MANUFACTURERS RECORD of December 8 of that year, it was located at Sterlington because of its nearness to the center of a gas field. The plant uses natural gas for fuel, which is brought to the boilers through 6-inch mains from points near Spencer and Bastrop, distances, respectively, of five and ten miles.

The Sterlington plant will ultimately have a capacity of 200,000 horsepower. It is tied in with the systems of the Mississippi Power & Light Co. and the Arkansas Power & Light Co., interconnecting hydro-electric and other stations in Arkansas and Mississippi and supplying electric power to 233 cities and towns in the three states.

A Criticism From the Petroleum Producers of Mexico and a Reply.

Association of Producers of Petroleum in Mexico,
Guy Stevens, Director,

New York, March 14.

Editor Manufacturers Record:

In the issue of the MANUFACTURERS RECORD of February 10, with reference to one article in which I have just written you, there is another article by Courtenay De Kalb, entitled "Mexican and Nicaraguan Situation Demands Statesmanship of High Order." In this article, as in the other, there are too many points touched upon to permit me to comment on all of them.

There is one in particular, however, which ought to be cleared up. Mr. De Kalb refers to what I consider a rather scurrilous imputation upon our Administration; namely, the report that "the Administration had counselled the oil men to wait and not to comply with the Mexican law." While Mr. De Kalb places responsibility for this charge upon reports "published in newspapers," he makes no effort to suppress it, because later he refers to it as "a very grave matter" and states that "the current opinion is that the oil companies that did not register refrained under some kind of suggestion from the Administration." This report is absolutely without foundation. Being absolutely without foundation, it must of necessity be a pure invention. It constitutes a serious attack upon the integrity of our public officials, and it seems to me extremely unfortunate that it should be used by an American citizen to try to bolster up a case against our own country and in favor of Mexico. It must be a pretty weak case that depends for its support upon such material.

In general, Mr. De Kalb gives a completely erroneous impression of the issues involved in the Mexican oil controversy and of the status of the controversy. He accepts the Mexican Government's "sweeping denial of the Mexican purpose to confiscate," in spite of the clear provisions of the Mexican Constitution and the new Mexican petroleum law.

He suggests that the oil men should wait until they are hurt before crying out, but the fact is that upon the legal record the oil companies have already had their titles confiscated. Moreover, if the Mexican Government is hurt, as it now admits itself to be hurt, as a result of its petroleum policies, to the extent of a large part of its potential revenue from the oil industry, it ought to be perfectly clear to Mr. De Kalb or any other person that the oil companies also have been hurt. Production has fallen within the past seven years from approximately 190,000,000 barrels a year to approximately 90,000,000 barrels a year. This has, of course, hurt the Mexican Government so far as revenue is concerned. But can it be possible that anyone should fail to see in this a direct injury also to the oil people?

In dealing with the principle of international law involved in this controversy, Mr. De Kalb is as unfortunate as he is in some other parts of his attempted analysis of the situation. He says: "Protection to American citizens and their interests in foreign countries requires fundamentally that Americans should recognize that international law has clearly defined the rights of foreigners which involves obedience to the so-called municipal law of the land." In other words, international law is subordinate to municipal law, which means, in effect, that there is no international law. What the oil people have asked the United States Government to protect them in is no "difficulties normal to the conduct of any business," but a very abnormal difficulty arising from the Mexican Government's purpose, through its Constitutional declaration and the new petroleum law, to work a wholesale confiscation of previously lawfully acquired petroleum properties and petroleum rights in Mexico.

On a whole, Mr. De Kalb's article illustrates admirably the great difficulty which every writer and speaker necessarily finds in trying to support an attack upon our Administration in the Mexican and Nicaraguan situation. No one of them seems to find in the actual facts the support which he desires for his preconceived ideas.

GUY STEVENS.

Mr. De Kalb's Reply to Mr. Stevens.

Mr. Stevens was advised that Mr. De Kalb would be invited to reply to his letter, and he has done so. Having spent many years, some 15 or 16, we believe, in Mexico engaged in large mineral operations, Mr. De Kalb knows Mexico and the Mexican people more fully than anyone else we have ever known. His reply to Mr. Stevens, couched in rather more courteous language than that of Mr. Stevens, is as follows:

New York, March 30.

Editor Manufacturers Record:

The letter from Guy Stevens, who is employed by the Association of Producers of Petroleum in Mexico, may be a challenge to comment on the moral significance of certain acts of the American Government. It seems to be assumed that failure to agree with the foreign policy of this Government is equivalent to lèse majesté. This objection to discussion of the acts of the Government comes from a source apparently interested in the pursuance of the policy referred to. Mr. Stevens has a right to express his opinions, just as all good citizens have a right to express their convictions upon grave Governmental policies that potentially are capable of leading to war.

The questions involved in the dispute with Mexico are largely, if not wholly, questions of law. The Senate of the United States has gone on record, without a dissenting vote,

in favor of submitting these Mexican problems to arbitration. That is a procedure not so far approved by President Coolidge. Therefore, as that expresses a judgment at variance with the Administration, evidently Mr. Stevens would have to include the Senate in his condemnation. Personally, I have been in close agreement with that august body, which voted in favor of arbitration. Even Mr. Kellogg shared this sentiment. I believe that the majority of the American people would take the same attitude if their interest were aroused to the point of registering their opinion.

The chief value of this debate would consist in examining those phases of the difficulty with Mexico which might promote a just and honorable solution. If an agreement were reached whereby the question should be arbitrated, which so far our Government has not tried to do, the case with very little doubt would be submitted to The Hague tribunal. That would almost certainly give justice to the oil producers. That is about all that anyone can expect to get in this world. The oil men are entitled to justice. They

should then apparently favor arbitration. If they were to announce that as their policy, and urge arbitration upon the Government, it would do more than put them in line for receiving justice; it would win the helpful good-will of the American people. It is a great thing in a republic to have the weight of public opinion on one's side. Granting that the case would be heard before The Hague tribunal, it would be hard to assume that this court would be biased. Therefore, if this door were to become available, through a protocol for arbitration, for obtaining justice, what possible reason could the oil men allege for unwillingness to accept that remedy?

Despite all the noise of contention with Mexico, none of the oil cases has yet been heard before the Mexican Supreme Court. Until a decision by that court has been rendered, there has been no actual confiscation. There have been withdrawals of drilling permits, with recourse on the part of the petroleum producers to "amparo," or shelter in the legal sense, and applications for drilling permits have been withheld. This is temporary interference with the exercise of control, but until the Supreme Court has determined the question actual confiscation has not been confirmed. It is not at all certain that the Mexican Supreme Court would interfere with American rights in property, with valid titles, under Article 27 of the Constitution. The so-called petroleum law, based on Article 27, is a general statute, controlling rights in petroleum concessions, and exemption of property acquired before 1917, under unclouded title, from its operation would in no wise make that general law inoperative within its proper sphere. There is another Article in the Constitution (No. 14) which prohibits retroactive application of legislation. The Civil Code, which is basic, also forbids retroactive application of laws. In view of this, and of previous decisions of the Mexican Supreme Court, it would be wholly gratuitous to assume that it would allow the heat of political passion to color its logic. Moreover, it would be an indignity upon Mexico to cast such a reflection upon her court of highest resort. Certainly it could not facilitate arriving at an amicable solution of the Mexican problem to assume what could only be construed as an offensive attitude.

It is no offense to say, however, that if Mexico should finally confirm a change of status of land tenure from that of actual possession, in what we call fee simple, to a leasehold, then, a fact of confiscation having been confirmed, the American people would not only be justified in protesting by force, but would certainly sanction extreme measures to restore such properties to their rightful owners. The difficulty with the case as it now stands is that the people are not persuaded that there has been confiscation. All men know that a case at law has not been decided until all remedies of appeal have been exhausted. Up to the present time it has not appeared that any of these cases have even been heard in the Supreme Court. Until then there would be no justification for intervention in any of the various direct or indirect forms.

If there be defective titles involved, as has been suggested, it is entirely possible that an arbitral tribunal might be given jurisdiction also in matters of equity, and thereby solve more than the mere legal issues. An evidence of good-will, even if there be lack of understanding of the point of view held in both countries, would almost certainly bring about an adjustment of the difficulties in this honorable way, to which this country has, in principle, over and over again unqualifiedly committed itself. Not to make an effort to bring about an amicable settlement by arbitration leaves us open to the severest criticism by the whole family of nations. It would inevitably be considered that we felt doubts about the validity of our contentions, and would lay us open to the charge of attempting to browbeat a smaller nation.

However, if we should decide to employ force, let us at

least do it in the conventionally honest way by declaring war. If the impasse is such that force alone can decide the issue, we could justify that course.

More and more, and especially in this country, with our ideals, it is essential to be morally right in our foreign relations. It would be reassuring to have the oil men, through any agency they might choose, make it plain, in the name of rectitude and sound morals, that they would protest against a possible lifting of the arms embargo. There is a common impression in the country that there is peril of such a step being taken. It is clear that if that were done every bandit could obtain arms and ammunition, and Mexico would find the criminal element arrayed and equipped for slaughter. We have seen what happened when those conditions existed before. There was no political authority, and chaos reigned. Americans were murdered all over the republic, and their women were subjected to unmentionable atrocities. The lifting of the embargo would provoke anew such a frightful condition and, if we should have to intervene to stop it, no man of conscience could fail to apply the terrible logic to the situation that should hold us responsible for the whole calamity. As a dominant industrial interest in Mexico, the petroleum operators would awaken a favorable response from the great bulk of the American people by publicly and privately using their influence, collectively and individually, to forestall so great an iniquity as that would be.

A predominant characteristic of the American people is righteous sentiment. They respond instantly to honesty and fair play. They incline so far away from acts of violence that hundreds of thousands of them have almost suffered their pacifist tendencies to interfere with their performance of civic duty in certain aspects. It is idealism and, whether right or wrong, we are an idealistic people. It is remote from idealism to allow the criminal element in a foreign country to arm itself by purchases of munitions of war from us to destroy that country. If any great body of influential industrialists interested in Mexico desires to win popular favor, they cannot do better than take the lead in counselling a wiser and more moral policy than that.

It must not be forgotten that the American nation is big and powerful enough to command justice if it be denied. When every avenue but force has been pursued, and our cause is demonstrably just, there will be no hesitancy on the part of the people to sustain resort to arms in defense of the rights of our citizens. Until that time the American people are certain to oppose acts that are unfriendly to a neighbor nation. Let us adopt a policy of conciliation until it is certain that justice is not to be expected, or proceed to follow the advice of the Senate and forestall any possibility of further friction by accepting the principle of arbitration, to which as a nation we stand committed.

COURTENAY DE KALB.

Bids on \$750,000 Store Addition.

Bids will be received until May 2 by Hecht Bros., Baltimore, for the erection of a store and warehouse addition to their building at Baltimore and Pine streets. It will be six stories and basement, 122 by 176 feet, of reinforced concrete, with concrete floors and foundations and built-up roof. The addition will contain approximately 210,000 square feet of floor space and will cost about \$750,000. Abbott Merkt & Co., New York, are the architects and engineers and Smith & May, Baltimore, consulting architects.

The following contractors are estimating: Frainle Bros. & Haigley; M. A. Long Co.; J. Henry Miller, Inc., and Consolidated Engineering Co., all of Baltimore; George A. Fuller Co., New York and Washington, and the Turner Construction Co., New York.

THE IRON AND STEEL SITUATION

Slight Seasonal Decline in Activity.

Pittsburgh, April 25—[Special].—The volume of steel buying has tapered off somewhat more in the past week, but is still fairly large by long range comparisons, the steel trade having been particularly active of late, as witnessed by the fact that steel ingot production in March made a new high record, passing the former record made earlier by 1.6 per cent.

In general the decline in activity must be regarded as purely seasonal as the same thing has occurred in each of the past three years, when March was the high month of the year in production and shipments, there being successive decreases into July, with an upturn thereafter. In 1924 the decrease in production March to July was 55 per cent, in 1925 it was 26 per cent and last year it was 16 per cent. The only question now is the extent of the decrease. With a 94 per cent production rate shown by the official report for March the rate last week may be estimated at somewhat under 90 per cent.

Should the bituminous coal strike become widespread, buying of steel would be stimulated and production likewise. It would be difficult to produce a fuel scarcity that would curtail the production of steel. In the last strike, begun April 1, 1922, half the Lower Connellsville region was down by April 10, but April showed 11 per cent heavier steel production than March, while there were further increases in May and June, whereas recent experience has indicated that it is normal for steel production to decrease during those months. Thus far there has been no striking in the Connellsville region. Instead, there is curtailment of coke production on account of insufficiency of demand, the last report of the Connellsville Courier showing 7.6 per cent decrease in a week, and there has since been additional curtailment. Spot furnace coke, recently at \$3.25 minimum, sold last week in several instances at \$3.15, which is far below cost of production with the relatively high wages now being paid, the basic day rate being \$6.00.

Fabricated structural steel lettings in the first quarter of the year were 594,660 net tons, against 579,200 net tons in the first quarter of last year and 566,530 tons in the first quarter of 1925. Thus predictions late last year of a decline in this class of building have not been borne out. Lettings thus far in April have been at approximately the first quarter rate.

Production of passenger automobiles and trucks in the United States and Canada in March was approximately 410,700, against 317,197 in February and 249,518 in January. These months ran below the corresponding months of last year as follows: January, 21.6 per cent; February, 15.7 per cent; March, 8.4 per cent. There can hardly be any doubt but that production is now 10 per cent above the March rate, which would make it equal to last year's peak rate, shown by April. As there are fewer Fords and more of other cars, requiring more steel per car, steel requirements of the industry compare favorably with those of a year ago, yet steel producers have regarded the demand as somewhat poor. Possibly it is a case of the orders being spread over a larger number of competitors.

Only in the matter of oil and gas well drilling is there a distinctly unfavorable comparison between current demand and that of a year ago. Last year was record high in oil and gas field consumption of tubular goods while this year drilling is very light. There has been a partial offset in there being an altogether unprecedented demand for line pipe for natural gas lines.

Finished steel prices are visibly easier in several lines than two or three weeks ago but there are no declines in the openly quotable market. Sheets are a trifle softer and in some

of the heavy rolled products inside prices, below the open market, are given to a somewhat wider range of buyers.

The valley pig-iron market continues dull, with prices firmly held. The M. A. Hanna Company has advanced its price on foundry iron from \$18.50 to \$19.

Birmingham District in Good Shape.

Birmingham, Ala., April 25—[Special].—The fact that production is being maintained and that delivery of pig-iron is in excess of the make indicates a market that is not causing worry for the time being. Quotations are firm at \$18 per ton, No. 2 foundry, 1.75 to 2.25 per cent silicon, and the surplus stock of iron on furnace yards is normal—in fact, somewhat under what it was several months ago. The hand-to-mouth system of buying, the elimination of all apprehension as to delivery of iron just as needed and other facts pertaining to the pig-iron industry give much strength to the Southern market.

Heavy outward movement of cast iron pressure pipe has been noted lately and activity will hardly cease for some time. These interests have not purchased for many weeks ahead and there is not very much iron on the yards of the shops. Record shipments of pipe were made during February and March by the American Cast Iron Pipe Company.

Foundries and machine shops report some improvement in conditions. The survey as to blast furnaces in operation show 10 on foundry iron, 12 on basic and 1 on ferro-manganese.

Improved conditions are in sight in the steel market. Steel fabricators report improvement recently in the trade, and the Welded Products Company has made the first shipment of lighthouse buoys for tidewater at Portland, Maine. This is the first time that any buoys of the kind have been built in this section, steel plate manufactured here being used. The same company is making dredging shore pipe for the Mississippi Dredging Commission and also for Miami, Fla. The St. Clair Oil Company has made here 108 large bulk tanks and 141 underground tanks, while the Dunn Construction Company has placed an order for three tanks, one of 10,000 gallons capacity and the other two of 20,000 gallons each for asphalt storage. Other steel-fabricating shops of the city and district are busy again on structural and other shapes and a brighter prospect is announced for the week.

Machine shops and foundries are maintaining the activity heretofore noted. Statement is reiterated that the diversification wrought in the past two years makes it possible for these shops to keep active indefinitely. The various large oil companies have placed many orders in this district for bulk and underground storage tanks.

Coal production in Alabama is being held around near 400,000 tons weekly. The output here is capable of 475,000 tons weekly, if not more, and transportation facilities are in splendid condition and ready to respond also to any call.

The coke market shows firmness, though the season of the year is at hand for some recession. Quotations are still on the \$5.50 per ton base for foundry coke. Production is still off, but can recuperate as the demand warrants it.

The scrap iron and steel market continues slow, with heavy melting steel and No. 1 cast holding board.

Portland cement trade is showing slight improvement. Alabama Portland Cement Company, subsidiary of the International system, responded to a call for used bags, cotton and jute bags, and sent 500,000 to the Mississippi River levees near New Orleans, which were threatened with destruction by the flood.

The annual meeting of the Southeastern Water and Light

Association, composed of seven States, was held in Jackson, Miss., and was one of the most interesting sessions in years. President E. O. Sweet presided. The cast iron pipe manufacturing companies had representation at the convention.

Quotations for pig-iron and iron and steel scrap follow:

PIG-IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$18.00 to \$19.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$18.50 to \$19.50; iron of 2.75 to 3.25 per cent silicon, \$19.50 to \$20.50; iron of 3.75 to 4.25 per cent silicon, \$20.00 to \$21.00; charcoal iron, f. o. b. furnace, \$20.00.

OLD MATERIAL.

Old steel axles.....	\$16.00 to \$17.00
Old iron axles.....	16.00 to 17.00
Old steel rails.....	12.50 to 13.00
Heavy melting steel.....	12.00 to 13.00
No. 1 cast.....	15.00 to 16.00
Stove plate.....	13.00 to 14.00
No. 1 R. R. wrought.....	11.00 to 12.00
Old car wheels.....	14.00 to 14.50
Old tramcar wheels.....	14.50 to 15.50
Machine shop turnings.....	8.00 to 8.50
Cast iron borings.....	8.00 to 8.50
Cast iron borings (chem.).....	13.00 to 14.00

Richmond Ice Company Consolidates Number of Properties—Begins Operations.

Richmond, Va., April 25—[Special.]—Organized as the result of a merger of a number of ice properties in Richmond, a new company known as the Richmond Ice Co., Inc., has begun operations here. The merger was handled through Ophuls & Hill, Inc., engineers of New York city, who secured options, negotiated the purchase of the plants and made engineering surveys and appraisals. Financing was arranged through the International Utilities Corporation and Chandler & Co., Inc., both of New York, and a \$1,000,000 bond issue was placed through Wheat, Galleher & Co., Inc., of Richmond.

The following properties are involved in the consolidation: City Ice Delivery Corporation, Buchanan Springs Co., Crystal Ice Co., with two plants and delivery system; Manchester Transparent Ice Works and Southside Ice Works, with delivery system; W. H. Hilliard & Sons, with plant and delivery; Tyler & Tyler and Tyler & Ryan ice and coal business with delivery system.

Extensions to Oklahoma Power Plant.

Oklahoma City, Okla., April 23—[Special.]—Important extensions to the Byng plant of the Oklahoma Gas and Electric Company are being rushed to take care of the demand for power in the Seminole oil field north of the plant. Practically all machinery has been purchased. The Byllesby Engineering and Management Corporation is handling the engineering and construction work. Improvements include: Two 6000-kilowatt Allis-Chalmers turbo-generators, four 600-horsepower Babcock & Wilcox boilers, an extensive addition to the spray pond, extensions to the present building to house boilers and generating equipment and the installation of two 7500-kva., three-phase transformers, 2300/66,000 volts.

Supplied Elevators for Birmingham Terminals.

The Moffatt Machinery Manufacturing Company, Charlotte, N. C., supplied 11 elevators for the first unit of the Merchants and Manufacturers Terminals, Inc., Birmingham, Ala., described in the MANUFACTURERS RECORD of April 14. Ultimately the plant will consist of four similar units, necessitating the installation of a total of 44 elevators. The completion of the project will make the installation one of the three largest jobs handled by the Moffatt company, each one involving 20 or more elevators.

The Seaboard Air Line Railway has begun freight service between Miami and Aladdin City and Homestead, Fla. Other stations on this extension are Coral Gables, Sunset Road, Tropic and Redland. All are agencies.

RAILROADS

Fine Report of the Atlantic Coast Line Railroad Company.

The annual report of the Atlantic Coast Line Railroad Company for the year 1926 shows a very gratifying condition of its property and of the country through which its lines run. During the year there were 486 new industries of various kinds located on the system and 100 additions were made to plants already established. The work of the agricultural and industrial department was continued along conservative and constructive lines to promote and encourage farming and manufactures and practical information and assistance were extended to farmers and settlers as well as to prospective purchasers of real estate.

An unusually large crop of cotton was produced resulting in low prices, but in contrast to this was the outcome of the bright leaf tobacco crop in the southern part of Georgia and elsewhere, which is a product of increased importance as a money crop and by reason of the satisfactory prices which prevailed, the growers received \$2,000,000 more than they did for the crop of 1925. Special service was continued by the department to the tobacco industry in Georgia and Florida.

Completion of the connecting line of railroad between Perry and Monticello, Fla., 40 miles, is remarked, the track having been laid and put in use in December, and in this connection it is also stated that the other connecting line which is being built between Thonotosassa and Richland, Fla., about 17½ miles, is expected to be finished and put in operation this summer. When this, and a short piece of second track from Richland to Dade City are completed and put in use, the system will have a short line from Tampa and other points on the west coast of Florida via Perry, Fla., Thomasville and Albany, Ga., to the West, which will be double track from Richland to Dunnellon, Fla., 60 miles. Previously existing lines which will form part of the new short route will also be laid with heavy rails this year. Other construction work and extensions of lines are being completed according to plans previously published.

The income account for the year shows operating revenues of \$97,086,517, an increase of more than \$3,000,000 as compared with 1925. Net operating revenues were \$26,384,746 and net income was \$14,462,286. Other financial data appears elsewhere in this issue.

The report is signed by H. Walters, chairman, and J. R. Kenly, president.

New Railroad Proposed in Arkansas.

The Mississippi River Western Railway Company has been chartered in Arkansas to build a line 60 miles long from near Wilson on the Mississippi River, in Mississippi county, to Harrisburg, in Poinsett county. The company has \$350,000 of capital stock and the president is R. E. Lee Wilson of Wilson. Charles T. Coleman and Justin Matthews of Little Rock, Ark., and R. E. L. Wilson, Jr., and Alvin Wunderlich of Willson are vice-presidents, and F. A. Gillette is secretary and treasurer.

New Equipment, Etc.

Western Maryland Railway will build 1000 steel hopper cars at its own shops at Ridgely, W. Va.

Southern Railway has ordered 550 tons of structural steel from the Virginia Bridge and Iron Works.

Consolidation Coal Company has ordered 600 mine cars from the Bethlehem Steel Corporation.

Burlington System Pushing Work on the Texas South Plains.

Fort Worth, Texas, April 15—[Special.]—Upon arrival here from a trip of inspection of the work being done in the construction of 200 miles of new lines of the Fort Worth and Denver South Plains Railroad subsidiary in Northwest Texas, Charles G. Burnham of Chicago, executive vice-president of the Chicago, Burlington and Quincy system, said:

"I motored from Estelline over the entire length of our new lines and visited all construction gangs. The work is under way already at about 15 separate locations. So far it is ahead of schedule, and we expect to have the line from Estelline to the Cap Rock in operation this fall and through Lubbock, Plainview, Dimmitt and Silverton by next spring. The job requires some tunnelling and heavy construction on the Cap Rock, but nothing beyond what was anticipated, and there is no reason to expect the maximum grade to exceed 1 per cent or that we won't get through on time. I feel more than ever that these lines will be an important influence in developing trade with Fort Worth and will have a big tonnage from the start of this operation.

"I notice reports of the organization of the Burlington Land Company, and while in the territory found that an impression had been created that the Burlington Railroad was interested in it. I want to make it plain that the Burlington Railroad Company and its subsidiaries are not backing or interested in any manner in this or any other land company. We, of course, will co-operate in bringing in settlers and developing the territory, but our activities will be confined entirely to transportation."

Freight Loadings Keeping Ahead of Last Year.

Loading of revenue freight on the railroads during the week ended April 9 totaled 959,474 cars, according to reports filed by the lines with the Car Service Division of the American Railway Association. This was an increase of 30,131 cars above the corresponding week last year and an increase of 41,074 cars over the same week in 1925. Compared with the preceding week this year, however, the total was a decrease of 33,271 cars, due principally to a decline in coal loadings because of the strike of bituminous miners in the union fields which began on April 1. Since January 1 there have been 14,317,294 cars loaded with revenue freight or 476,663 cars more than were loaded in the corresponding period of last year.

Ties Made of Old Rails.

Metal railroad ties, constructed by electric arc welding from worn rails, are ten times as strong as ordinary wooden ties and can be made very cheaply, according to William Dalton of the manufacturing general department of the General Electric Company, Schenectady, N. Y., who recently completed a test extending over a year in collaboration with H. S. Clarke, engineer of maintenance of way of the Delaware and Hudson Railroad. J. T. Loree, vice-president and general manager, has decided to substitute metal for wooden ties in yards and sidings, and arrangements are now being made by that railroad to install equipment in its shops to make the ties.

Two pieces of rail are used for each tie, as designed by Mr. Dalton, the rail employed being that which has been removed from the track as worn and with no value, except as scrap. The two lengths are fastened together at each end by metal plates welded in position. The L-shaped angle bars used in ordinary rail joints can be used for this purpose. When two rails are fastened together in this manner it is said that movement of the tie in any direction in the ballast

is prevented. For fastening the track to the tie, metal plates are welded to the tie and the track rails are clamped to these with special devices which cannot slip.

An analysis of costs of wooden versus metal ties made by the Delaware and Hudson Railroad shows a total cost of \$2.80 for a wooden tie, but the total cost of fabricating a metal tie of the type designed by Mr. Dalton is 60 cents and the scrap value of the tie is \$2.50, making an overall cost of \$3.10. Inasmuch as the scrap value of a metal tie can be realized when it is later discarded from tie service, its net cost is reduced to the cost of fabrication. An insulator between the tie and the rail will be required on main lines using automatic electric signaling.

To facilitate easy and inexpensive construction of these metal ties the General Electric Company has designed a new type of automatic electric arc-welding equipment, one of which is to be installed soon in the Delaware and Hudson's shops.

Southern Pacific's West Coast Route to Mexico Completed.

The Southern Pacific Railway Co. has completed its new line in Western Mexico which will permit of through train service from San Francisco, Cal., to Guadalajara, Mexico, and thence via the National Railways of Mexico to Mexico City. The first train passed over the line on April 14 soon after the gap between Tepic and LaQuemada was finished, but the formal celebration of the opening of the extension will not take place until May 8 when there will be appropriate ceremonies at Salsipuedas viaduct in which Mexican Government officials and others will take part. Guadalajara is 110 miles south of the international boundary line at Nogales, Ariz. It is therefore 2142 miles from San Francisco to Guadalajara via Los Angeles, Cal., and Tucson, Ariz., and 612 miles from Guadalajara to Mexico City, which latter is a total distance of 2754 miles from San Francisco by the new route.

Cars to Be Cleaned to Prevent Damage Claims.

In order that more nearly a maximum number of freight cars can be kept in readiness at all times to meet the transportation needs of this country, the transportation division of the American Railway Association has announced a plan by which closed freight cars which have been contaminated with oil, grease or other liquids—or cars in which offensive odors are present—can be cleaned with a special preparation devised by the division. This will result not only in a reduction in claims made by shippers because of loss and damage to freight shipments due to cars contaminated from previous loadings, but will also increase the available supply of cars by the more speedy return of freight cars to serviceable condition.

Chesapeake and Ohio March Statement.

The Chesapeake and Ohio Railway Company's statement for March, 1927, shows gross revenues, \$11,772,534; increase \$1,309,031 over March of last year; operating expenses \$7,932,715; increase \$208,523; net railway operating income \$3,302,502; increase \$857,514; net income after all charges \$2,622,851; increase 917,563. Operating ratio 67.4 per cent, a decrease of 6.4 per cent. For the three months ended March 31, 1927, statement shows gross revenues of \$33,158,424; increase \$2,919,604; net railway operating income \$8,776,070; increase of \$1,936,925; net income after all charges \$6,745,738, increase \$2,265,311.

H. H. Elliott has been appointed assistant to the general freight agent of the Atlantic Coast Line with office at Wilmington, N. C.

GOOD ROADS AND STREETS

Will Vote on \$1,250,000 Bond Issue.

Goliad, Tex.—An election on a road bond issue of \$1,250,000 has been called for May 28 by the Commissioners Court of Goliad County. Funds from the bonds will be used for building 109 miles of hard-surfaced roads and for lateral road improvements. J. A. White is the county judge.

Louisiana Parish Lets Contract.

Benton, La.—A contract has been awarded by the Consolidated road district of Bossier Parish to the Alexandria Contracting Company of Alexandria, La., at \$131,447, for building 26 miles of gravel road from Benton to Haughton, via Bellevue and Princeton. J. R. Wendt is the parish engineer.

135 Miles of Additional Highways.

Columbia, S. C.—The Capital highway act, which assures the construction of approximately 135 miles of road to a network of 70 miles now radiating from Columbia, has been signed by Governor Richards. A permanent bridge will also be erected over Broad River near Columbia, to replace a wooden structure.

Kentucky County to Sell Bridge Franchise.

Winchester, Ky.—The sale of a franchise for the construction of a toll bridge across the Kentucky River, between Ford and Lower Howard's Creek, connecting Clark and Madison counties, has been ordered by the Fiscal Court of Clark County. The proposed location is to be approved by the State Highway Commission and the War Department. The franchise, to be in force for 20 years, provides that construction must begin within a year.

To Push Highway No. 66 Project.

A call for all State highway, chambers of commerce, legislative and automobile club officials of the States traversed by United States highway No. 66 to meet at Springfield, Mo., May 2, has been issued to plan for completion of the road and the promotion of a harmonious legislative program, both Federal and State. The officers of the United States Highway 66 Association are John T. Woodruff, Springfield, Mo., president, and H. B. McDaniel, Springfield, treasurer. Cyrus S. Avery, George Spiva, Joplin, Mo., and others were elected an executive committee. E. Bee Guthrey, secretary of the Oklahoma State Highway Commission, has resigned that office to become executive secretary of the new association.

Brick Paving Contract for Columbia, Miss.

Contract for brick paving and storm-sewer construction has been awarded to the Southern Clay Manufacturing Company, Chattanooga, Tenn., by the city of Columbia, Miss. Business and residence streets are included. The work will be laid with 2½-inch vertical fiber paving brick with asphalt filler. The storm-sewer is up to 48 inches in diameter. Contract was let also to the Jones Electric Company of McComb, Miss., for a whiteway to occupy Main street and Second street. The plan for second street provides for a double driveway of 30-foot paving with a parked neutral ground between the roadways. The brick pavement on Main street will be 70 feet wide and lighted at the sides of the street.

Hugh L. White, lumberman, is Mayor of Columbia, J. E. Watts is city clerk and Henry Mentz, Hammond, La., is consulting engineer.

Invite Bids on Maryland Roads.

Bids will be received until May 3 by the State Roads Commission, Baltimore, for the construction of 6.4 miles of concrete road in Prince George County; 7.5 miles of concrete shoulders in Frederick County; two projects covering 5.69 miles and 5.82 miles, of concrete shoulders, respectively, in Baltimore County, and 4.13 miles of concrete shoulders in Anne Arundel County. Proposals will also be received for building a double span reinforced concrete arch bridge on the Philadelphia road in Baltimore County over Little Gunpowder River, to consist of two 45-foot spans with 24-foot roadway, and a double span steel and reinforced concrete girder bridge on the same road in Harford County over Winter's Run, to consist of two 60-foot spans with 24-foot roadway.

\$9,000,000 Program in Louisiana.

Baton Rouge, La.—Louisiana's road program for this year will involve an expenditure of \$9,000,000, according to estimates of James M. Fourmey, chief engineer of the State Highway Commission. It is stated that since the first of the year an average of \$700,000 has been expended each month for construction and maintenance. The commission is committed to an expenditure of more than \$4,000,000 on contracts, while maintenance costs will exceed \$3,000,000.

Oklahoma Road Bids Total \$1,200,000.

Oklahoma City, Okla.—A tabulation of bids received by the State Highway Commission for 13 road projects covering a total of more than 50 miles indicates the work will cost in excess of \$1,200,000. Plans call for the construction of approximately 50 miles of concrete to cost \$1,143,913, and three miles of grading, drainage and concrete surfacing to cost \$71,599.

Bids to Complete Crain Highway.

Bids will be received until May 3 by the Maryland State Roads Commission, Baltimore, for the completion of the Crain highway, for which the General Assembly provided \$250,000. The work will involve 7 miles of concrete north of Upper Marlboro. The commission has already expended \$1,000,000 on the new road, which extends from Baltimore to a point near T. B. in Prince George's county.

Notes on Good Roads Construction.

Special road district No. 2 of Pontotoc County, M. J. Biffle, clerk, Pontotoc, Miss., will vote May 10 on a bond issue of \$600,000 to build roads.

Kinney county, John H. Stadler, county judge, Brackettville, Texas, has sold \$150,000 of road bonds to C. W. Arlitt of Austin.

St. Johns County Commissioners, St. Augustine, Fla., have awarded contract to the C. R. Cummings Company, St. Augustine, for building approximately 12 miles of road between Julington and Orangedale at a cost of \$122,289.

McGuire & Rolfe, Inc., Richmond, Va., have been awarded paving contracts by the Commissioners of the District of Columbia, Washington, to involve an expenditure of approximately \$500,000.

TEXTILE

Plans of Liberty Fabrics Corporation.

Union, S. C.—Plans of the Liberty Fabrics Corporation, which has recently organized with a capital stock of \$350,000, contemplate the manufacture of glove silk and underwear made of glove silk at a plant which it is erecting here. The company has leased a building from B. F. Kennedy, treasurer of the corporation, and is adding a second story under the supervision of Mr. Kennedy and A. W. Cheshire, builder. The structure will provide 11,500 square feet of space on each floor. A sprinkler system and low-pressure heating plant will be installed.

The new company is an outgrowth of the Liberty Fabrics Corporation of New York city, and the new mill here will be the first of its kind to move South. In addition to Mr. Kennedy, officers of the company include Emslie Nicholson, president, and D. N. Jones, secretary and assistant treasurer. Sidney M. Edelstein, an industrial engineer of Union, is a director of the company.

Georgia Mills Changes Hands—Expansion Planned.

Winder, Ga.—At a price approximating \$500,000, Russell B. Lowe, Jr., and D. C. Finney of Fitchburg, Mass.; Dr. G. W. Le Perriere and T. A. Maynard of Winder, have purchased the Barrow County Cotton Mills here and it is stated that more than \$500,000 will be expended for enlargements. These properties include a plant at Winder operating 10,000 ring spindles and 276 looms, and the Lawrenceville Mills at Lawrenceville, Ga., operating 6464 ring spindles. The latter plant will soon be increased by the addition of 10,000 spindles in a building under construction, and denims and other coarse cotton fabrics will be manufactured at both plants. Mr. Finney is the general manager of the new corporation.

Install \$750,000 Worth of Machinery.

To replace equipment which has been in operation about 34 years, the Columbia Mills of Columbia, S. C., owned by the Mount Vernon-Woodberry Mills, Baltimore, has installed approximately \$750,000 worth of new machinery. This equipment which is intended to give more economical operation and better balance in departmental capacities, includes new spinning machinery, 74 cards, picking, slubber, twisting machinery and Bahnsen humidifiers. It was furnished by the Saco-Lowell Shops, Boston, Mass., and the Whitin Machine Works of Whitinsville, Mass.

Big Warehouse and Compress at Memphis.

Robert J. Cummins of Houston, Texas, advises that he has been commissioned as engineer for a compress and warehouse for the Tri-State Compress Company of Memphis, Tenn. The building will be one story, 300 by 1200 feet, of frame construction, with concrete outer and division walls. It will probably be equipped throughout with sprinklers and will have a 100,000-gallon tank 100 feet high. Plans are practically complete.

For New Underwear Factory at Union.

Union, S. C.—Application has been made to the Secretary of State, Columbia, for a charter for the Unionwear Corporation of this city, capitalized at \$60,000, to establish an underwear factory here. S. M. Edelstein, an industrial engineer, of Union and Brooklyn, N. Y., and H. M. Arthur, Union, are incorporators.

MECHANICAL

Grinder With Electric Drive.

An electrically driven grinder which is made in two sizes, one of them three horsepower and the other of five horsepower capacity, is shown in the accompanying picture. It is made by the Standard Electrical Tool Company of Cincinnati, Ohio, and the smaller size carries emery wheels of 12 by 2



GRINDER WITH EYE SHIELDS.

inches or 14 by 2 inches, according to preference. The larger size carries emery wheels 18 by 3 inches.

To operate these grinders there is a 40-degree General Electric motor, with push-button control of the same make located on the inside of the pedestal or base of the grinder. The armature shaft is made out of a high-grade nickel steel and S. K. F. ball bearings are used, being encased in dust-proof chambers.

The emery-wheel guards are of the hinge-door type with exhaust connections, and they are equipped with a spark breaker and a polished wire glass eye shield which is adjustable.

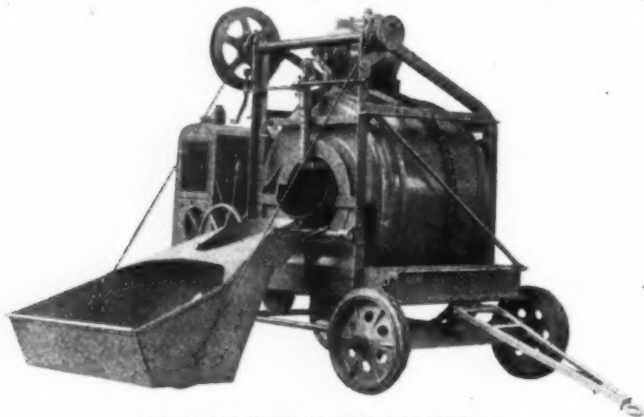
Building Mixer With New Features.

There has just been brought out a concrete mixer that will take a full two bag batch on a 1-2-5 mix. This machine is something entirely new in its line, its designers having made several departures from the usual engineering features found in this type of mixer. The manufacturers, the Chain Belt Company of Milwaukee, Wis., whose products, the Rex mixer and pavers are widely used, say that this new 10-S model has no countershaft. The engine clutches, drum drive hoist and power take-off have been incorporated in one unit assembly. This has been accomplished with case-enclosed cut-tooth gears that are constantly running in oil and take power directly from the engine. An auto-movite type 10 horse power 4 cylinder gasoline engine completes the unit and is responsible for eliminating a great share of the unnecessary vibration.

For a quick, even flow of water a new type of valve, known as the Free Way Valve has been selected. Practically no dribble is possible when shutting off the water with this new type valve. It is also stated that greater handling and towing ease than ever before has been made possible by a new front axle construction of 4 inch I beams. The wheels are

mounted in automotive fashion in such a manner that they can be turned on a shorter radius.

Another interesting feature is the spring mounting on the rear axle. The entire mixer is mounted on three point suspension and both rear wheels are spring-mounted to take up the usual shocks. Alemite lubrication is used throughout. By

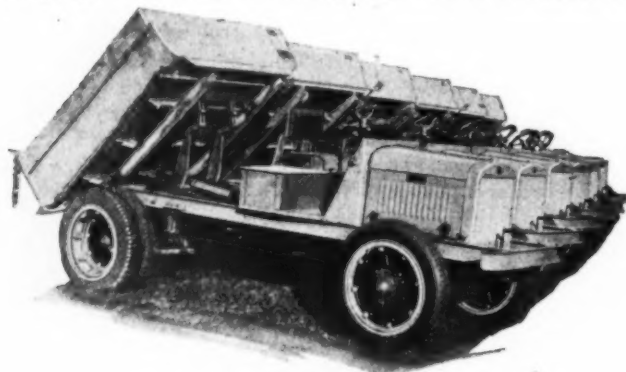


VIEW OF NEW BUILDING MIXER.

an extensive use of malleable castings and pressed steel rollers this machine has been reduced in weight. Pressed steel drum rollers, free floating on bronze bushings have replaced castings. Other castings where great strength and long life was required have been changed from cast iron to certified malleable iron.

Single-Dump Trucks for Concrete.

The Herman Body Company of St. Louis is building 50 scoop bodies especially designed for handling wet concrete. They are to be mounted over St. Paul underbody hydraulic hoists and installed on Hug trucks for the General Material Company, a new concern recently organized to distribute wet



SIX TRUCKS IN DUMPING POSITION.

concrete to all parts of St. Louis and vicinity from a central mixing plant.

The deal involves over \$175,000 and was closed by R. K. Tibbetts, vice-president and general manager of the Hug Company, and Herman Plew, owner of the Herman Body Company, and is said to be the largest single-dump truck fleet sale made in that city.

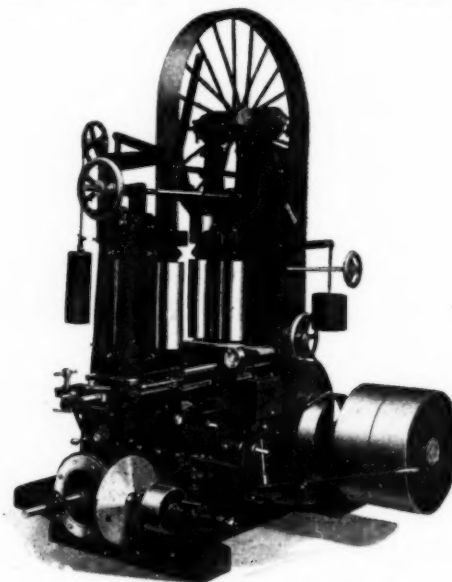
The hoists are of the medium-duty St. Paul underbody type, manufactured in St. Paul, Minn., by the Hydraulic Hoist Manufacturing Company, an old and original manufacturer of hydraulic hoists, and they have been distributed in St. Louis by the Herman Body Company for five years.

The City Commission of Jacksonville, Fla., M. W. Bishop, secretary, has sold 5 per cent bonds in the amount of \$760,000 for drainage and sewerage to the Florida National Bank of Jacksonville at \$781,172.

Ball Bearing, High Speed Band Resaw.

The accompanying illustration shows a new design of Resaw with a Feed Works mounted on saddle, affording rapid adjustment of the feed rolls to and from the saw blade where the saw passes as close as 1¼ inches to the center of the second set of rolls, insuring accurate ends and ability to cut very short stock; this entire unit can be angled for cutting bevel siding.

Four 6-inch feed rolls actuated by steel heat treated gearing are driven by variable speed friction feed rolls through powerful gears. These feed rolls are self-centering or can be instantly changed to have one set rigid for sawing from



BALL BEARING BAND RESAW.

one side of timber. The rolls can be moved either separately or simultaneously by a sliding gear shift connecting the screws.

The wheels are 54 inches in diameter and carry a 7-inch blade. Both wheels are carried on heavy shafts mounted in heavy trunnions giving bearings on both sides. The rim and hub of the upper wheel are cast around steel spokes set staggered and combining strength and lightness. Side lining and tipping adjustments of the upper wheel for tracking the blade can be made without stopping the machine. Both wheels run in self aligning ball bearings.

The patented Knife Edge Balance on this machine, is described as the most sensitive straining device for tensioning saw blades ever put on a band resaw. The upper wheel boxes rest on counter-weighted thrust rods, with sharp end bearings acting directly under the boxes close to the wheel, giving it a vertical movement in the straining action and keeping it parallel with the lower wheel under all conditions. This straining device permits the use of very thin blades at the high speeds without danger of breaking. Also the patented hinged board rest plays an important part in the cost of up-keep.

The manufacturers are the J. A. Fay & Egan Co., of Cincinnati, Ohio.

American Oil Chemists to Meet.

The American Oil Chemists' Society, of which R. H. Fash of Fort Worth, Texas, is president, will hold its eighteenth annual convention at the Roosevelt Hotel, New Orleans, on May 9 and 10. A meeting of the governing committee, of which Mr. Fash is chairman, has been called to meet at the hotel on May 8. J. C. P. Helm of New Orleans is the secretary-treasurer of the society.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.
An asterisk (*) following an item indicates that the enterprise has been reported in a preceding issue.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

Airplane Plants, Stations, Etc.

La., New Orleans—St. Tammany-Gulf Coast Airways, Inc., capital \$50,000, chartered; M. D. Kostmayer, Pres., United Fruit Bldg.; Edward Makofsky, Sec.-Treas., 1509 Audubon St.; establish air transportation between New Orleans and St. Tammany and Gulf Coast points; build floating landing pier; similar facilities will be developed at Mandeville, Slidell, Bay St. Louis, Pass Christian, Gulfport, Edgewater Park and Biloxi.

N. C., Winston-Salem—Reynolds Airways, Inc., capital \$50,000, chartered; Richard J. Reynolds, Geo. W. Orr, both Reynolds; W. L. Ferrell, Jr., Wachovia Bank Bldg.

Va., Richmond—Mason Mangum, Managing Director, Richmond Chamber of Commerce, advises regarding airport: "City Council has voted in favor of municipal airport and studies are being made with view to buying and leasing sufficient land and putting same in condition without going beyond appropriation made by City Council." G. M. Bowers, Asst. Director of Public Works, advises: "\$30,000 has been appropriated for purchase of land and construction of airport; area of proposed project about 400 acres, 100 acres purchased outright and 300 acres leased with privilege of purchasing; have tentative plans but no construction started; City proposes to handle all construction work, plans and supervision given through Dept. of Public Works."

Bridges, Culverts and Viaducts

Proposed Construction

Ark., Henderson—Henderson Bridge Co. has franchise for bridge at Smith Ferry, Highway No. 12, across Northfork River at Henderson; E. A. Miller, Engr., Toledo, Ohio.

Ark., Waldron—State Highway Comn., Little Rock, plans 2 bridges over Mill Creek and Little Petit Jean River on Boles to Gravelly Highway; O. L. Hemphill, State Highway Engr.

Fla., New Port Richey—Pasco County Comms., Dade City, plan bridge across Pithlachascote River at New Port Richey.

Fla., St. Augustine—St. Johns County Commissioners considering toll bridge across Matanzas River, from Crescent Beach, St. Augustine, to point opposite on west bank.

Ga., Thomasville—Thomas County Commissioners plan \$75,000 bridge over Ochlocknee River on Lone Star Trail.

Ky., Covington—Chesapeake & Ohio Ry. Co., C. W. Johns, Chf. Engr., Richmond, Va., Louisville & Nashville R. R. Co., W. H. Courtenay, Ch. Engr., Louisville and Covington and Cincinnati Elevated R. R. plan expending \$5,000,000 to eliminate grade crossings, and \$5,000,000 for C. & O. Bridge over Ohio River.

La., Bastrop—Morehouse Parish Police Jury, J. W. Brodnax, Pres., receives bids May 24 for 493-ft. creosoted timber approaches and 100-ft. steel fixed span over Bayou Bartholomew, at Point Pleasant, 35,000 lbs. structural steel, 5100 ft. creosoted piling, 67,000 F. B. M. creosoted timber, 33,000 F. B. M. untreated lumber; plans from J. Lester White, Engr.*

La., New Orleans—Louisiana Highway Commission, Baton Rouge, may call bids by July 1 for Rigoles and Chef Menteur bridges; J. M. Fourmy, State Highway Engr.*

La., New Orleans—City plans receiving bids for concrete viaduct over Seventeenth St. canal, and bridge over New Basin canal. Address City Engr. Vallas.

La., Shreveport—City, L. E. Thomas, Mayor, and Kansas City Southern Ry. Co., A. N. Reece, Ch. Engr., Kansas City, Mo., plan

elimination of grade crossings on King's Highway and on Vincent St., and to alter Marshall Street Bridge to conform to city's street widening plan; approximate cost \$250,000.

Maryland—State of Maryland receives bids for 2 bridges. See Roads, Streets, Paving.

Miss., Greenwood—Leflore County Board of Supvrs., A. R. Bew, Clk., receives bids May 2 for creosoted pile bridge across Quiver River at O'Neal Place.

Miss., Indianola—Sun Flower County Board of Supvrs. plans reconstructing bridge across Sun Flower River, about 8 mi. east of Shelby, Miss.

Miss., Macon—Noxubee County Board of Supvrs., John A. Tyson, Chancery Clk., receives bids May 6 for 4 bridges on Fox Trap Road, Dist. 2.

Mo., Chillicothe—Chicago, Milwaukee & St. Paul Ry. Co., C. F. Loweth, Ch. Engr., Chicago, Ill., plans railroad bridge at Chillicothe; cost \$87,268.

Mo., St. Charles—St. Charles County Court plans 100-ft. long, 18-ft. wide double roadway bridge near Foristell; replace bridge recently damaged. Address County Comms.

N. C., Asheville—City Comms., John H. Cathey, Mayor, receive bids April 30 for Chestnut Street Viaduct; 318-ft. deck girder steel bridge, with steel bents; plans from Gilbert C. White Co., Engrs., Asheville and Durham.

N. C., Danbury—Stokes County Highway Comn., W. S. Hart, Chmn., plans steel bridge over creek at point near Wade Mecum Springs on Rural Hall-Moore's Springs; replace wooden bridge.

South Carolina—State Highway Dept. received low bid for 11 bridges. See Roads, Streets, Paving.

S. C., Charleston—Cooper River Bridge Co., Inc., has franchise to construct and operate toll bridge, tunnel and tube over Cooper River from points on west bank of river at Charleston to point on east bank, connecting with Route No. 40.

S. C., Moncks Corner—State Highway Dept., Columbia, receives bids May 3 for 170-ft. reinforced concrete overhead bridge over Atlantic Coast Line R. R. tracks near Strawberry, Route 41; 58,710 lbs. reinforcing steel; plans from State Highway Engr.; Ben M. Sawyer, Ch. Highway Commr.

Tex., Beaumont—See Roads, Streets, Paving.

Tex., Plainview—Hale County receives bids May 3 for two 21-ft. concrete-slab span bridge, State Highway No. 9, 11,174 lbs. reinforcing steel; plans from County Judge.

Tex., Plainview—State Highway Comn., R. S. Sterling, Chmn., Austin, receives bids May 3, tentative date, for reinforced concrete bridge on Highway No. 9 at south city limits of Plainview; R. A. Thompson, State Highway Engr.

Virginia—State Highway Comn., H. G. Shirley, Chmn., Richmond, receives bids May 12 for Chappawamsic Creek Bridge, Project S-79; C. S. Mullen, Ch. Engr.

Virginia—State Highway Comn., H. G. Shirley, Chmn., Richmond, plans \$250,000 bridge at Altavista; grade and hard surface 5 mi. road on each side of 25 mi. existing gap; erect about \$50,000 bridge at Cherrystone, near Chatham; C. S. Mullen, Ch. Engr.

W. Va., Huntington—City, H. H. Fielder, Clk., received low bid from T. E. Duncan, at \$7349, for reinforced concrete bridge over Four Pole Creek on Boulevard extension to Wayne County line.*

W. Va., Huntington—See Roads, Streets, Paving.

W. Va., Mason City—Pomeroy-Mason

Bridge Co., Robert L. Hogg, William Fowler, both Point Pleasant; Arthur B. Koontz, Union Bldg., Charleston, applied to Maj. Harry M. Trippe, U. S. Engr., Huntington Dist., for approval of plans to construct steel bridge over Ohio River between Mason City and Pomeroy, Ohio; 584 ft. long, 2 end spans about 250 ft.; 106 ft. above low water mark; Dravo Contracting Company, Neville I., Pittsburgh, may be awarded contract; Ch. Engr., Maj. Gen. Edgar Jadwin.

Contracts Awarded

Ala., Carrollton—State Highway Comn., Montgomery, let contract to Nixon & Phillips, Lineville, for 5 cresoted timber bridges in Pickens County, between Aliceville and Dancy.

Fla., Fort Lauderdale—Powell Brothers, Fort Lauderdale Bank Bldg., have contract for steel superstructure of S. W. Eighth (Coley) Ave. bridge.

Fla., Wabasso—Comms. of Wabasso Special Road and Bridge Dist., let contract to Austin Brothers Bridge Co., 1195 Michelberry St., S. W., Atlanta, Ga., for 3000-ft. trestle work, and 1200-ft. fill for 6200-ft. bridge across Indian River; to N. T. Harlow Construction Co., Jacksonville, for standard steel turn drawbridge.*

Miss., Tehula—Orr Construction Co. has contract, at \$16,000, for creosoted wood bridge over Tehula Lake, at west end of Main St. Address City Clk.

Miss., Tylertown—Walshall County Board of Supvrs. let contract to Felder & Co., MeComb, for 10 bridges on Enon road.

Okla., Sallisaw—State Highway Comn. let contracts for 3 bridges. See Roads, Streets, Paving.

Canning and Packing Plants

Fla., Hialeah—Everglades Canning Co., H. S. Pickering, Gen. Mgr., will erect vegetable and fruit preserving plant; 100x135 ft.; cement block; cement floors; steel roof; install canning and preserving machinery. See Want Section—Machinery and Supplies.

Fla., Palmetto—Donald Beck, Sarasota, reported, acquired Palmetto Canning Co.

Fla., Tavares—Eagle Lake Canning Co., reported, erect canning plant.

Coal Mines and Coke Ovens

Tenn., Chattanooga—Grand View Coal and Lumber Co., W. A. Eudaly, Pres., Middletown, Ohio, reported increased capital, \$300,000 to \$400,000; is a holding concern, controls about 30,000 acres of land along Suck Creek Road on Signal Mountain and extending east to Montlake property.

Va., Honaker—Thompson Coal Corp., capital \$10,000, chartered; A. A. Thompson, Pres.; B. F. Thompson; develop coal mines in Virginia and elsewhere.

W. Va., Fairmont—Monongahela Fuel Co., capital \$1,443,800, incorporated; Carl Riggs, Jacob's Bldg.; R. P. Hines, West End; H. H. Carpenter; chief works in Fairmont and Paw Paw Districts.

Concrete and Cement Plants

S. C., Greenville—Superior Sewer Pipe Co., C. R. Johnson, Pres., Camp Sevier, increased capital \$46,000 to \$85,000.

W. Va., Clarksburg—See Miscellaneous Enterprises.

Cotton Compress and Gins

Ala., Anniston—Ginners Exchange Milling Co., capital \$30,000, incorporated; G. W. Elchelberger, Anniston, Pres.; R. T. Faulk-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

ner, Iron City; T. L. Harvey, Wellington; construct cotton gin and oil mill.

Ark., Morrilton—Federal Warehouse and Compress Co., reported, plans \$10,000 extension to warehouse; 500x140 ft.; frame, metal roofing, increasing capacity to 20,000 bales.

Ark., Round Pond—Planters Gin Co., capital \$25,000, incorporated; R. G. Bryan, R. C. McNeill.

Miss., Minter City—Minter City Gin Co., capital \$30,000, incorporated; G. A. Sperry, W. D. Garner.

Okla., Brinkman—Farmers Co-Operative Gin Co., capital \$25,000, incorporated; L. E. Lott, G. L. Gates.

Okla., Temple—Farmers Union and Co-Operative Gin Co., capital \$25,000, incorporated; A. D. Warren, P. C. Campbell, E. W. Enoch; construct gin.

Okla., Mulhall—W. H. Coyle & Co., Guthrie, is rebuilding burned cotton gin; 24x60—14, 20x20—14, 16x30—12; galvanized iron; wood and concrete; construction by owners; Continental Gin Co., Mch. Contrs.*

Okla., Walters—Farmers' Co-Operative Gin, capital \$25,000, incorporated; J. T. Smallwood, F. M. Williams.

Tex. Corpus Christi—Aransas Compress Co., reported, let contract to Pittsburgh-Des Moines Steel Co., Praetorian Bldg., Dallas, for water tank for fire protection; Summer Sollitt Co., National Bank of Commerce Bldg., San Antonio, for underground water system, grading and excavating for railroad tracks; L. T. Wright, 910 Builders Exchange Bldg., San Antonio, Gen. Contr.*

Tex., Galveston—W. A. Kelso & Co., Inc., 2220 Ave. C, contractor for Pier 9 warehouse for Galveston Wharf Co., advises: "Pier will be of flat slab construction, 2 stories high, 1050x196 ft.; on concrete piles (Raymond); install Webb press; R. M. Sias, Ch. Engr., 2215 1/2 C St.*"

Tex., Nacogdoches—A. T. Mast, reported, construct \$25,000 electric gin.

Cottonseed-Oil Mills

Tex., Lockney—J. S. Harrison Construction Co., 414 Liberty National Bank Bldg., Waco, reported, has contract for Lockney Cotton Oil Co.; steel and reinforced concrete; daily capacity 125 tons each 24 hrs.; Anderson, Clayton & Co., Cotton Exchange Bldg., Houston, in charge of engineering.*

Tex., Quanah—Quanah Cotton Oil Co., reported, enlarging oil mill by addition of sheds, storage rooms, and warehouse.

Drainage, Dredging and Irrigation

Fla., Vero Beach—Sebastian Drainage Dist., containing about 50,000 acres lying between Indian River and Fellsmere Drainage Dist. and north to county line, having survey made under supervision of Carter & Dameron, Engrs., Vero Beach.

La., New Orleans—See Sewer Construction.

Oklahoma—Roy O. Coppock of Gate, Okla., applied for permit to build dam and reservoir, to irrigate about 50,000 acres of N. Canadian River, initial unit to cost approximately \$2,000,000; plans call for impounding about 200,000 acre ft. water in reservoir fed by canal mile long from dam 7000 ft. long and 70 ft. high.

Texas—B. F. Williams, State Reclamation Engr., Austin, interested in following proposed reclamation districts: To protect 28,600 acres land in valley of Bois d'Arc Creek; Big Sandy Creek Valley in Wise County, reclaiming 22,000 acres; Big Brushy Valley in Denton and Wise County, 25,000 acres; King Creek Valley, Kaufman County, 25,000 acres.

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

D. C., Washington—Bureau of Standards, reported, soon have plans prepared for power plant at Connecticut Ave. and Pierce Mill Rd., N. W.; cost \$200,000.

Fla., Boynton—City voted \$35,000 bonds for electric light extension. See Financial News—Bond Issues Proposed.

Fla., Winter Park—City votes May 10 on sale of light and water utilities to Florida Public Service Co.

Ga., Cordele—Crisp County ratified \$1,250,000 bonds for hydro-electric development on

Flint River; Power Comn. of Crisp County formed, with J. J. Williams, Chmn.; formed to develop 20,000 h.p.; preliminary work done by Emmett S. Killebrew, Engr., Albany.*

La., Crowley—Gulf States Utilities Co., Lake Charles, reported, negotiating for realty and equipment of light and water system.

La., Lafayette—City reported considering sale of electric light plant. Address The Mayor.

La., Sterlington—Louisiana Power & Light Co., Pine Bluff, reported, soon begin work on construction and installation of 2 additional generating units and complete equipment at electric power plant, trebling present capacity to 120,000 h.p.; Ford, Bacon & Davis, 115 Broadway, New York, engineers and designers of first unit, will probably direct construction of new units. A. G. Whilden, Pine Bluff, wires: "Installation of 2 additional generators, each of 40,000 h.p. capacity and complementary equipment which will triple capacity of Louisiana Power Co.'s generating station at Sterlington in Louisiana natural gas field is under way, under direction of Ford, Bacon & Davis, who designed plant and built first unit. Present capacity 40,000 h.p., supplied by 2 generators, each 20,000 h.p.; additional units being installed give total capacity 120,000 h.p.; Sterlington destined for extension 200,000 h.p.; this plant tied in with systems of Mississippi Power and Light Co. and Arkansas Power and Light Co., interconnecting hydro-electric and other stations in Arkansas and Mississippi, supplying electric power to 233 cities and towns in the three States."

La., Vinton—Gulf States Utilities Co. of Texas, Lake Charles, reported, has 25-year franchise for transmission line.

Louisiana—United Public Service Co., reported, organized under laws of New Jersey, to place under one control 37 public utility companies operating in Middle West and South; consolidation involves issuance of \$15,200,000 of new bonds and common and preferred stock of parent company and principal companies; total of \$7,400,000 bonds and notes have been sold, providing about half capital for consolidation; remaining financing is being negotiated; issues will be used in part for exchange for bonds, notes and capital stocks of operating subsidiaries acquired by company and for outstanding indebtedness; company will own all the common stock of United Public Utilities Co., which company controls 21 public utilities; will also control Southern United Ice Co., and Southern United Gas Co.; company will control operating companies serving 43 communities in Ohio and Indiana, 42 in North and South Dakota and ice service to 9 in Louisiana including New Orleans; electric light and power in 71 and gas in 19 communities; Ernest Jacobean, Pres., Nicholas Stahl, V. P.; R. H. Morrison, Treas.; investment banking firms of Hambleton & Co., Thompson, Ross & Co., and Lane, Piper & Jeffray underwrote securities already offered.

Maryland—West Penn Electric Co., Pittsburgh, Pa., subsidiary of American Water Works & Electric Co., Inc., will issue 25,000 shares of 6% cumulative preferred stock; company controls West Penn Railways Co., West Penn Power Co., Monongahela West Penn. Public Service Co., Keystone Power Co., Potomac Edison Co., supplying electric light and power, railway and gas over area of 22,000 sq. miles, extending from within 25 miles of Baltimore across Maryland and Northern West Virginia to Ohio River.

Md., Baltimore—Consolidated Gas, Electric Light & Power Co. will construct 35 mile belt transmission line around city.

Miss., Columbia—Jones-Johnson Co., 210 Main St., has contract for white way on Main St. and Second St.; H. A. Mentz, Constructing Engr., Hammond, La.; General Electric Co., Schenectady, N. Y., and Graybar Electric Co., 195 Broadway, New York, mch. contrs.*

Mo., Kansas City—Guaranty Co., Otis & Co., Bonbright & Co., Inc., Halsey, Stuart & Co., Inc., all New York, offering \$3,000,000 first mortgage 30 yr. 4 1/2% gold bonds, Series B of Kansas City Power and Light Co.; company supplies light and power in Kansas City and portions of 21 surrounding counties; proceeds to be used to reimburse company for new generating unit and other permanent improvements.

Mo., Kansas City—Kansas City Power and Light Co., reported, negotiating for purchase of power plant, Second St. and Grand Ave., for \$2,500,000 from Kansas City Public Service Co.

Mo., Blue Springs—Independence Water Works Co., Independence, reported, extend mains to Blue Springs and Tapawingo.

Mo., Galen—Electric Utilities Co., subsidiary of Henry L. Doherty Co., 60 Wall St., New York, reported, granted permit to construct high tension line from Crane to Reeds Spring.

Mo., Joplin—Halsey, Stuart & Co., Inc.; Arthur Perry & Co., A. B. Leach & Co., Inc., all New York, are offering \$9,400,000 first mortgage and refunding gold bonds, 5% of Empire District Electric Co.; supplying substantially entire electric light and power requirements in Joplin and portions of Southwestern Missouri and Northeastern Oklahoma.

N. C., Madison—Southern Power Co., Charlotte, reported, extend transmission line between Madison and Leaksville.

N. C., Sparta—Sparta Power and Light Co., capital \$40,000, incorporated; J. P. Holcombe, Doughton; C. M. Holcombe, Sparta.

N. C., Winston-Salem—Southern Public Utilities Co. let contract to Fogle Bros., 202 Belevus St., to repair building destroyed by storm.

Okla., Boise City—City reported voted to sell light and power plants to Cimarron Utilities Co. (Controlled by Kansas City Power and Light Co., Kansas City, Mo.).

Okla., Chickasha—L. E. Myers & Co., Dallas, Tex., reported, has contract for 66,000 volt tension power line for Southwestern Light and Power Co. from Lawton to here.

Okla., Ponca City—Burns & McDonnell Engineering Co., 402 Interstate Bldg., Kansas City, Mo., reported preparing plans for power plant; install equipment.

Tenn., Knoxville—Knoxville Power and Light Co., Col. C. H. Harvey, Pres., reported, increase capital, \$10,000,000 to \$15,000,000.

Tex., Austin—Board of Regents, University of Texas, reported, let contract to James T. Taylor Co., First Natl Bank Bldg., Fort Worth, at \$218,500 for constructing power plant.

Tex., Beaumont—City, Ollie J. Boyd, City Mgr., reported approved plans for Pearl St. white way.

Tex., Fort Worth—G. W. Turner, 1101 Gambrell St., reported, interested in white way on Broadway between Main St. and Jennings Ave.

Tex., Fort Worth—George W. Fulton, 1106 Fairmont St., reported, interested in white way on Pennsylvania Ave.

Tex., Galveston—W. B. Flynn and F. H. Votaw, reported has franchise for installing electric light system at High Island.

Tex., Rocksprings—Will Eaton, Sonora, reported, let contract to J. T. McClelland, Sonora, to rebuild light, water and power plants destroyed by storm.

Texas—West Texas Utilities Co., Abilene, reported, acquired power plants at El Dorado and Sonora; extend transmission line; operate ice plants in Ozona and Sonora.

Tex., Angleton—Texas-Louisiana Power Co., Harris Trust Bldg., Chicago, reported, acquired power plant at Angleton, erect plant unit at Brazoria; plans being made for plant at Velasco at Ave. A near Brazos River.

Tex., Beaumont—City, reported, closed 10 yr. contract with Gulf States Utilities Co., Lake Charles, La., for street lighting.

Tex., Dallas—Pecos Valley Power and Light Co., incorporated by Q. C. Taylor, J. H. Gardner, Hy Byrd, all of Austin Natl. Bank Bldg., Austin; directors B. J. McCushton, Fred M. Deardorff, 3109 Tracy St.; B. M. Gallagher, H. W. Elliott, 4246 Benton St.; Doswell Jones, 1411 W. Fifth St., all Kansas City, Mo., reported construct \$2,500,000 power plant and dam on Pecos River nr. Girvin.

Tex., Jasper—Eastern Texas Electric Co., Beaumont, reported, acquired Jasper Electric Co.

Tex., Texas City—Service Electric Co., reported, has contract for rehabilitating present lighting system.

Va., Hopewell—Plans being discussed for \$10,000,000 power plant in connection with erection of nitrogen fixation plant of Atmospheric Nitrogen Corp., subsidiary of Allied Chemical and Dye Corp., 61 Broadway, N. Y.; engineers of company and Virginia Electric and Power Co., Richmond, reported, working on power requirements of project.*

Va., Norfolk—Princess Anne Power Co. incorporated; Guy W. Capps, Back Bay; Chas. H. Lambeth, Dresden Apt., and Nathaniel Beaman, Jr., Wayne Apt., both Norfolk; operate electric lighting, heating and power transmission system.

Flour, Feed and Meal Mills

Tenn., Lewisburg—Lewisburg Milling Co., capital \$25,000, incorporated; E. E. Eakin, J. Paul Fitzpatrick.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Gatesville—Smith Grain Co., capital \$13,500, incorporated; H. S. Compton, J. G. Smith.

Foundry and Machine Plants

Fla., Miami—Bellance Motor and Machine Co., capital \$10,000, incorporated; Richard Graft, Neil Salmonson, Jas. T. Shields.

La., New Orleans—Pullman Car & Manufacturing Co., D. A. Crawford, Pres., Pullman Bldg., Chicago, Ill., advises regarding erection of car wheel foundry: "This project is not now and will not for some months be sufficiently advanced to furnish any details of just what lines of foundry work we will equip for and conduct."

Tex., San Angelo—H. O. Lown of Texarkana, Tex., reported, acquired San Angelo Foundry & Machine Co., together with all buildings, machine forging equipment, grey iron foundry and pattern shops; plans installing additional equipment.

Gas and Oil Enterprises

Ark., Clarksville—W. T. Morann Co., Shreveport, La., reported, applied for gas franchise.

Fla., Bradenton—City ratified sale of gas plant to John A. Reed of Cedar Rapids, Iowa.*

Fla., Jacksonville—Rufus C. Dawes and associates reported sold Jacksonville Gas Co. to American Commonwealths Power Corp., New York city.

La., Houma—Southern Gas Co., Inc., capital \$200,000, incorporated; Allen J. Ellender, John P. Lech, Edward Wright.

La., Houma—South Louisiana Pipe Line Co., Inc., capital \$200,000, incorporated; John P. Beck, Edward Wright, B. C. Lirette.

La., Lake Charles—Choupique Oil Corp., capital \$100,000, chartered; Cleve Trahan, M. C. LeBlau, 932 Boulevard.

La., Lake Charles—Magnolia Petroleum Co., Dallas, Texas, reported, erect distributing station in Hutchins St.

Miss., Amory—Chas. L. Tubb Oil Co. incorporated; Chas. L. Tubb, J. N. Mullins; develop 25,000 acres oil land.

Miss., Jackson—City voted to grant T. L. James interests natural gas franchise.*

Okla., Okemah—Hameko Oil Co., capital \$100,000, incorporated; S. T. Palmer, W. C. McIntosh, Burr Randles.

Okla., Tulsa—Superior Royalty Co., capital \$25,000, incorporated; W. Bayard Taylor, 1508 S. Troost St., J. J. Schneider, 517 S. Victor St., Paul D. Gibbons, 1408 N. Boston.

Okla., Tulsa—White Oak Refining Co., capital \$200,000, incorporated; W. M. Welch, Mayo Bldg., J. H. Welch, 14 E. 16th St., J. M. Story, 2315 E. 4th Place.

Okla., Tulsa—Basin Oil and Gas Co., capital \$1,000,000, incorporated; J. H. Boss, Natl. Bank of Commerce Bldg., Tulsa; A. F. Duery, J. H. Vincent, both Pittsburg, Kans.

Texas—J. H. DeJordan, Engr. for Hope Engineering & Supply Co., Mount Vernon, O., contractors for natural gas pipe line of Valley Gas Co., reported, to begin work on line extending from Miranda gas fields to Pharr, Brownsville, San Juan, Alamo, Donna, Weslaco, Mercedes, LaFeria, Harlingen and San Benito.

Tex., Amarillo—Matador Oil Corp., capital \$200,000, incorporated; A. C. Page, 1201 Donaldson St., W. W. Williams.

Tex., Brownwood—Morgan Utilities Co., 600 E. Lee St., M. B. Morgan, Pres., Little Rock, Ark., will construct gas distributing system.*

Tex., Cuero—Southwest Gas Co., L. C. Doney, Jr., Vice-Pres., Houston, lately noted having gas franchise, advises: "Specifications on Yoakum, Cuero and Gonzales pipe lines and distributing systems are not complete at present time; we expect to begin actual construction on above mentioned work within next 30 days."

Tex., Dalhart—Prairie Oil and Gas Co., Independence, Kans., reported interested in natural gas franchise.

Tex., Fort Worth—Frank M. Greene Corp., World Bldg., capital \$100,000, incorporated; Frank M. Greene, E. M. McCormick, H. D. Woody.

Tex., Fort Worth—Gulf Pipe Line Co., Gulf Bldg., Houston, reported, lay 400 mile pipe line at cost of \$9,000,000 to West Texas Plains district, including radiating lines, pump stations and tank farms; capacity 40,000 bbls. daily.

Tex., Houston—Houston Oil Co., E. H. Buckner, Pres., Petroleum Bldg., reported,

construct gas-pipe line parallel to present line from Cole field to Houston, advises that report was premature.

Tex., Houston—C. J. Frankel, 925 Electric Bldg., has contract at \$50,000 for reinforced concrete and hollow tile warehouse, 1 and 2 stories, 50x229 ft., for The Texas Co.

Tex., Houston—A. and P. Production Co., capital \$60,000, incorporated; Don F. Anderson, 1705 California St.; Albert Plummer.

Tex., Jacksonville—Humble Oil & Refining Co., Humble Bldg., Houston, reported, construct two 55,000 bbl. storage tanks.

Tex., Laredo—Schlesinger Oil Corp., capital \$20,000, incorporated; H. B. Schlesinger, A. L. Edgington.

Tex., Pampa—Rensaul Petroleum Co., capital \$150,000, incorporated; W. B. Saulsbury, E. E. Reynolds.

Tex., San Angelo—San Angelo Refining Co., W. B. Hassett, Pres., 112 E. 27th St., Tulsa, Okla., is erecting addition to plant; install crude stills and tankage; cost \$25,000; construction by company.*

Tex., San Angelo—Big Lake Oil Co., J. G. Farquhar, Vice-Pres., Benedum-Trees Bldg., Pittsburgh, Pa., advises: "Electrifying our property in Reagan County, Texas; have purchased from Westinghouse Electric and Mfg. Co., East Pittsburgh, Pa., electrical equipment, consisting of 100 15/35 H. P. motors for pumping and 15 twin-drive units for drilling; power furnished by Pecos County Light and Power Co., Kansas City, Mo."

Tex., Sheffield—California Co., Colorado, Tex., reported, applied to State Board of Water Engrs., Austin, for permission to divert 250 acre-ft. water per yr. from Pecos River, for oil development, install pumping plant.

Tex., San Antonio—Leonard Petroleum Co., capital \$10,000, incorporated; J. W. Leonard, John H. Donnan, D. R. Buchanan.

Tex., Wichita Falls—Continental Oil Co., Staley Bldg., reported, construct approximately 53 mile pipe line from Nocona Pool in Montague County to here; cost \$250,000.

W. Va., Kenova—United Fuel Gas Co., W. S. Kilby, Supt., 814 Fourth Ave., Huntington, will construct 20-in. gas pipe line from Martin, Floyd County, Ky., to Kenova; construction by company's forces. See Want Section—Machinery and Supplies.

Ice and Cold-Storage Plants

Fla., Miami—J. T. Powell, Seventh Ave., reported, plans erecting refrigeration plant, N. W. Twenty-first Terrace and S. A. L. Railway, 100x100-ft., estimated cost \$45,000.

Ga., Moultrie—Swift & Co. advise regarding recent report \$200,000 would be expended for new construction: "We are only investing small amount on improvements."

La., New Orleans—Tulane Ice Co., Inc., capital \$75,000, chartered; Robert W. Taylor, 8001 Hickory St.; E. Gatipon, 2025 Tulane Ave.

Miss., Laurel—Laurel Ice and Packing Co., 11th St., increased capital, \$50,000 to \$100,000; will establish and operate second plant under name of Cash and Carry Ice Co. also small plant at Ellisville; machinery purchased.

N. C., Newbern—F. W. Beasley, Portsmouth, Va. (operator of chain ice and ice cream manufacturing plants), reported, purchased plant of Consumers Ice Co.

Tex., Austin—Walker Properties Assn., W. F. Gohlke, Mgr., 310 San Antonio St., reported, plans erecting \$50,000 cold storage plant, W. Fourth St.

Texas—See Electric Light and Power Plants.

Tex., Dallas—Arctic Ice Co., capital \$40,000, incorporated; H. Roberts, 5820 Reiger St.; J. E. Coggeshall, Walter Coggeshall.

Tex., Santa Anna—West Texas Utilities Co., Abilene, Tex., plans erecting \$30,000 ice plant; brick, concrete and steel, 15 ton capacity; Earl Morely, Dist. Supt., Ballinger, Tex.

Tex., San Antonio—Merchants' Transfer Co., Franklin Canaday, Pres., 215 Main Ave., will erect modern fireproof warehouse adapted for both cold and dry storage; has site between Dolorosa and Nueva St., along M. K. T. railroad tracks; preliminary plans now being made; construction probably begin latter part of this year.*

Tex., Weslaco—William Burns, of Harlingen and associates, reported, plans \$100,000 cold storage plant, also propose erecting plants at San Benito and other valley cities.

Va., Richmond—Richmond Ice Co., Inc., F. W. Bacon, Pres., 700 Franklin Bank Bldg., Philadelphia, Pa. and 120 Broadway, N. Y., reported, acquired Electric Ice Manufacturing Co., 2924 North Ave., Barton Heights, as additional producing unit; other companies merged noted in previous item.*

Va., Richmond—Richmond Ice Co., Inc., (formed by merger of seven other companies, lately noted), began operations April 15; deal handled through Ophuls & Hill, Inc., Engrs., 112-14 W. Forty-second St., New York, who secured options, negotiated purchase of plants, made engineering surveys and appraisals; financing arranged through International Utilities Corp. and Chandler & Co., Inc., both 120 Broadway, New York City; and \$1,000,000 bond issue placed through Wheat, Gallaher & Co., Inc., Richmond, Va.*

Iron and Steel Plants

Tex., Dallas—Structural Steel—Mosher Steel and Machinery Co., W. S. Mosher, Pres., S. Lamar St., reported, acquired 30 acre site on Maple Ave.; erect new plant.

Land Development

Ala., Birmingham—Tennessee Land Co. developing Forest Hills subdivision; install water, sewers, gas.

Ala., Florence—Bailey Springs Syndicate, S. W. Sparks, Pres., New York; G. A. Earle, Sec., Stuart, Fla., reported, acquired Bailey Springs, health and pleasure resort; will develop.

Ala., Foley—Foley Country Club, reported, acquired 180 acres along Magnolia River; develop for golf course and club.

Ark., Van Buren—Dr. A. F. Hoge, First Nat. Bank Bldg., Fort Smith, reported, acquired 360 acres.

Fla., Avon Park—Highland Lakes Development Co. incorporated; Jno. R. Magarvey, P. J. Bearton.

Fla., Avon Park—Forest-Butler Holding Co., capital \$50,000, incorporated; Charles Clements, John H. Hood, H. A. Winter.

Fla., Babson Park—Babson Park Grove Service, Inc., chartered; F. L. Cody, F. L. McLeod.

Fla., Babson Park—Scenic Center Investment Co., incorporated; F. L. Cody, E. R. Cody.

Fla., Boynton—City voted \$125,000 bonds for golf course. See Financial News—Bond Issues Proposed.

Fla., Danla—Gulda Holding Corp., capital \$10,000, incorporated; John M. Bryan, J. Murray Bryan.

Fla., Daytona Beach—Ormond Estates, Inc., acquired 65 acres facing Halifax River from Daytona Shores, Inc.

Fla., Fort Lauderdale—Broward Farm Development Co. incorporated; Ralph A. Horton, Bryan Court; C. H. Landefeld, Jr.

Fla., Fort Lauderdale—Lauderdale Farms, Inc., chartered; E. C. Gordon, A. L. Weis.

Fla., Fort Myers—Brentwood Holding Corp. incorporated; L. E. Sherouse, L. M. Sherouse.

Fla., Gainesville—Parrish-Wilson Realty Co. incorporated; James H. Parrish, M. M. Parrish.

Fla., Jacksonville—College Realty Co. incorporated; Charles F. Jenkins, 218 Reynolds St.; Howard Cooper Johnson.

Fla., Miami—Overly Corp. incorporated; E. Foster, Carl T. Hoffman, 62 W. Flagler St.

Fla., Miami—W. T. Swift & Co., capital \$10,000, incorporated; W. T. Swift, 329 N. W. 12th Ave.; H. B. Swift.

Fla., Miami—Altman & Co., 157 E. Flagler St., incorporated; John S. Giannone, F. E. Altman.

Fla., Miami—Corona Del Mar Land Co., Inc., chartered; Stephen P. Mras, G. R. Washbush, New Halcyon Arcade.

Fla., Orlando—J. T. Lord Realty Co., incorporated; J. T. Lord, Jr., T. P. Lord.

Fla., Pahokee—Pahokee Farms Corp. incorporated; Thomas J. Mead, F. Wolff.

Fla., Pensacola—American Riviera Realty Corp., incorporated; F. M. Yates, J. Anderson, Thieson Bldg.

Fla., Sanford—Lynne-Essex Co., Inc., chartered; Wm. J. Lake, H. V. Eubanks.

Fla., Sebring—Hudson Farms, Inc., capital \$50,000, incorporated; G. V. Hudson, H. E. Stevens.

Fla., St. Petersburg—Waterfront Holding Co., capital \$20,000, incorporated; H. H.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Victory, Harry Childs, E-130 Tenth Ave. N.; C. B. Turner, 147 Central Ave.

Fla., Tampa—Haber Bros., Inc., capital \$50,000, incorporated; Sam Haber, Abe Haber, Jacob Haber.

Fla., West Palm Beach—Eagle Bay Properties, Inc., capital \$12,000, chartered; E. B. Donnell, Seward Bldg.; R. E. Hamrick.

Fla., West Palm Beach—C. Comer Makin, Inc., Citizens Bank Bldg., chartered; Chas. C. Makin, H. J. Quincey.

Fla., West Palm Beach—W. J. Hoggson, reported, develop 4000 ft. tract with ocean frontage for golf course and club.

Ga., Macon—The Neal Co., capital \$24,000, incorporated; W. T. Anderson, Shirley Hills; Roy I. Neal, 319 Vineville Ave.

La., Many—Carroll-Gay, Inc., capital \$10,000, chartered; S. L. Carroll, W. E. Stephens.

La., New Orleans—Chetta-Fineran Realty, Inc., chartered; John A. Chetta, J. J. Fineran, 6308 Freret St.

La., New Orleans—Walter Snider, Pres., Gulf States Realty Co., reported, acquired tract near Bridgedale.

La., New Orleans—Alfred Danziger, Carondelet Bldg., reported, acquired 6000 acres.

La., New Orleans—Gertrude Realty Co., capital \$10,000, incorporated; Sidney G. Roos, Hibernia Bldg.; Julia Weis.

Miss., Pascagoula—F. S. Canty, H. F. Gaultier reported acquired tract of land for golf course.

Mo., St. Louis—Samoto Realty & Bldg. Co. increased capital \$40,000 to \$100,000.

Mo., St. Louis—Wilson & Koontz, Inc., incorporated; H. E. Wilson, 3533 Lafayette St.; S. C. Wilson, R. J. Koontz.

N. C., Blowing Rock—Cyrus C. Babb, Const. Engr., Hickory, reported, surveying tract for public park.

N. C., Charlotte—Charlotte Land Co., capital \$125,000, incorporated; B. D. Heath, Independence Bldg.; J. J. Akers, Johnson Bldg.; T. M. Shelton, 11 N. Poplar St.

N. C., Gastonia—Boyce & Ware, Inc., capital \$100,000, chartered; J. Stacey Boyce, 521 S. Chester St.; J. White Ware, 405 Main St.; Richard K. Davenport.

N. C., Rocky Mount—Edgemont Extension, Inc., capital \$100,000, incorporated; H. S. Poole, L. H. Ashley.

N. C., Williamston—Godard Land Co., capital \$25,000, incorporated; J. C. Godard, J. C. Godard, Jr., C. G. Godard.

N. C., Wilmington—Westover Farms, Inc., capital \$50,000, incorporated; W. E. Kyle, A. S. Pope, T. A. Bain, New Kirn Bldg., Norfolk, Va.

N. C., Wilson—Forbes Place, Inc., capital \$150,000, incorporated; W. P. Anderson, 203 Grey St.; S. H. Anderson, 401 W. Nash St.

N. C., Winston-Salem—Carolina Beach Corp., E. P. Yates, 16 W. Third St., and W. W. Walsh, Peoples Bank Bldg., reported, let contract to Davis Dredging Co., Norfolk, Va., for dredging Carolina Beach for constructing hard surface highway; H. M. Austin, High Point, has contract for constructing driveway; C. B. Lincoln, Miami, Fla., for landscaping.

Okla., Enid—R. R. Kisner and T. F. Melford, reported, develop Kisner Heights subdivision, 40 acres; install water, sewers, streets; Hare & Hare, Landscape Archts. and City Planners.

Okla., Seminole—Cordell Stuart Oil Co., capital \$20,000, incorporated; A. W. Stuart, C. R. Cordell, N. C. Riley.

S. C., Pickens—James P. Carey, Jr., and Wade H. Chastain, reported, develop Carey Lake subdivision; first unit 200 acres, with lake covering 12 acres.

Tenn., Benton—John L. Williams, reported, surveying townsite for Felkertown for J. Tom Felker, Etowah.

Tenn., Knoxville—McLean-Rector & Scott, 713 Market St., has 116 acres; will develop 50 acres subdivision; preliminary engineering completed and street lines established; construct concrete streets.

Tenn., Knoxville—General Realty Co., capital \$100,000, incorporated; John A. Ayres, Len G. Broughton, A. Parkey.

Tex., Alvin—G. A. Barth, reported, acquired 408 acres on Friendswood Rd.

Tex., Alvin—Peter McDonald, Jr., reported, acquired 408 acres on Friendswood Rd.

Tex., Austin—Austin Development Co., H. G. Hubert, Resident Mgr., developers of Pemberton Heights subdivision, will landscape several park sites, finish driveways, etc.

Tex., Beaumont—Newport Realty Co., capital \$25,000, incorporated; R. J. Barry, 2363 McFaddin St.; F. A. Doyle, 858 Main St.; J. H. Phelan, 585 Fourth St.

Tex., Burlington Townsite and Development Co., Ed. Kennedy, Pres., Chronicle Bldg., organized to develop townsites along extension of Burlington R. R. now building from Childress to Estelline, Turkey, Quitaque, Silvertown, Lockney, Petersburg, Lubbock, Plainview, Hart and Dimmit.

Tex., Houston—City, reported, improve and extend Memorial Park. See Financial News—Bond Issues Proposed.

Tex., Houston—Texas Ave. Realty Co., M. E. Foster, Pres., is developing Foster Place addition; install water, sewers, electric lights, streets.

Tex., Houston—Seaboard Realty and Building Co., capital \$225,000, incorporated; C. S. Woods.

Tex., Jacksonville—Real Estate Board, reported, interested in development of Midway, townsite; install sewers, water distribution system, lights.

Tex., San Antonio—H. E. Dickinson, Central Trust Bldg., reported, develop 100-acre subdivision; pave streets.

Va., Alexandria—Alexandria Homes Corp., capital \$10,000, incorporated; Julian T. Burke, Gardner L. Boothe, Joseph H. Howell.

Lumber Enterprises

Fla., Manatee—Miller Lumber Co., capital \$50,000, incorporated; S. B. Denton, L. N. Dantzier, Sr., L. N. Dantzier, Jr.

Fla., Sanford—Sanford Cash Lumber Co. Inc., capital \$25,000, chartered; W. S. Price, S. E. Andrews, F. H. Price.

Ga., Columbus—H. Dixon Smith, Inc., capital \$50,000, chartered; H. Dixon Smith, 1355 Forest Ave., Columbus; J. H. Thomas and B. B. Doggett, Forest City.

Ga., Macon—Gulf State Lumber Co., capital \$10,000, incorporated; John E. Parrott, Add L. Arnold, Dayton, Ohio; Walter C. Dunham, Ingleside Ave., Macon.

Ky., Ashland—Kitchen Lumber Co., capital \$100,000, incorporated; John W. Kitchen, James H. Kitchen.

Miss., Lucedale—Eastman, Gardiner & Co., Laurel, Miss., reported, purchased holdings of Hoffa-Brown Co., consisting of about 20,000 acres timber land in George County.

Tenn., Memphis—G. A. Williams & Co. Inc., capital \$15,000, chartered; G. A. Williams, B. R. McMorris, J. H. Parnell, 2241 Madison St.; erect and operate lumber mills, etc.

Tex., Harlingen—Deprang-Hampton Lumber Co. incorporated; J. M. Hampton, M. B. Hampton, Will Deprang.

Mining

Fla., Gainesville—Santa Fe Lime Rock Corp., J. W. Geller, Pres., 103 E. Main St. S., has 200 acres lime rock under development, daily output approximately 3000 tons; install soft rock crushing plants and power shovels, all purchased except shovels; W. J. Boyd, Constr. Engr. See Want Section—Machinery and Supplies.

Ga., Augusta—Paschal Metal Mines, Inc., H. H. Bell, Pres., 104-5 Masonic Bldg., advises, company being formed to develop Paschal gold mines and Magruder copper mines in Lincoln County, about 1436 acres. See Want Section—Mining Machinery.

La., Alexandria—Southern Gravel Co., Inc., capital \$25,000, chartered; W. C. Easton, O. H. Lewis, Harry F. Bush.

Missouri—Consolidation of Barnsdall Zinc Co., 120 Broadway, New York and Joplin Natl. Bank Bldg., Joplin, Butte-Kansas Co. and Acme Mining Co., operating in Missouri, Kansas and Oklahoma, reported, to be known as Missouri-Kansas Zinc Corp.; combined properties hold leases to surface and mineral rights over more than 606 acres zinc-producing lands, with 4 operating mills, 1 reserve mill, aggregate capacity of about 3000 tons concentrates monthly; output will probably be increased to 50,000 tons annually. Headquarters 25 Broad St., Suite 823, New York City, with capital structure 125,000 shares of no par value, and \$1,300,000 7% debenture.

Missouri—Missouri Ore Co., organized, Geo. M. Humphrey, Pres., 2648 Overlook Rd.; F. B. Richards, Sec., Leader Bldg., both Cleveland, Ohio, formed to develop iron ore property formerly operated by Iron Mountain Mining Co., have concentrating plant; new explorations now in progress.

Tenn., Elizabethton—Manganese Ore Co.,

capital \$25,000, incorporated; O. D. Hutchins, A. M. Moody, F. A. Gammon.

Tenn., Jefferson City—The American Zinc Co., Mascot, reported, hold mineral rights to about 250 acres and obtained about 80 additional acres, testing land for zinc ore, probably erect mills, etc.

Tenn., Jefferson City—Universal Exploration Co., St. Louis, Mo., reported representing the U. S. Steel Corp., reported, has option on about 2000 acres in Jefferson County, being tested for zinc ore, probably erect mills, etc.

Tenn., New Market—Zinc—The Grasselli Chemical Co., Guardian Bldg., Cleveland, Ohio, reported, has 300 acres land, Jefferson County, plans development, started to sink main shaft, probably employ 250 persons, plans developing two other mines.

Va., Austinville—Bertha Mineral Co., part of Jersey Zinc Co., New York, reported, let contract to Richardson-Wayland Electrical Corp., 106 Church Ave., W., Roanoke, for complete electrification of plant, work includes wiring for and connection of about 3000 h. p. of motors.

Miscellaneous Construction

Ala., Holt, Br. of Tuscaloosa—Inland Waterways Corp. through which Government operates Mississippi-Warrior barge line service, reported, will construct terminals; cost about \$75,000; Gen. T. Q. Ashburn, executive officer of Corp.

Ala., Mobile—Alabama State Docks Comsn. receives bids May 19 for coal and material handling plant. See Want Section—Bids Asked.

Md., Baltimore—Retaining Wall, etc.—Board of Park Comms., Winfield F. Courts, Park Engr., construct retaining wall and sewers, Broening Park; bids May 4. See Want Section—Bids Asked.

Md., Baltimore—Incinerator—Board of Awards, F. A. Doffield, Register, received low bid from Charles L. Stockhausen, Gay and Water St., at \$218,242 for erection municipal rubbish incinerator plant on Philadelphia Rd. and Herring Run Park.

Mo., Joplin—Swimming Pool—Park Board, F. M. Weeks, Sec., receiving bids for bath house and swimming pool at Leonard Park.

Okla., Carmen—Farmers Union Local No. 133, reported, interested in organizing Farmer Union Co-Operative Elevator Co., Oscar Reeg, Mgr.; construct elevator.

S. C., Charleston—Tunnel. See Roads, Streets, Paving.

S. C., Charleston—Memorial Entrance—M. L. Stephenson, 115 S. King St., has contract for memorial entrance to College of Charleston, St. Philip St.; Cole Iron Works, 1272 Murphy Ave., S. W., Atlanta, Ga., for railings and gates.

Tex., Houston—B. C. Allin, Director of Port, reported, let contracts for extension to public grain elevator at Turning Basin: John S. Metcalf Co., 111 W. Jackson Blvd., Chicago, Ill., at \$91,000 for 421-ft extension to gallery; Diamond Rubber Co., 1925 S. Michigan Ave., Chicago, Ill. to supply 5911 feet of rubber belting used in extension conveyor system; Webster Manufacturing Co., 4520 Cortland St., Chicago, Ill. at \$58,822 for machinery; all installation comes under The Metcalf Co.; extensions costing about \$162,600.

Tex., Mount Pleasant—B. G. Swindell, Dallas, has contract for swimming pool for Dallas Club. See Miscellaneous Enterprises.

Tex., San Angelo—Incinerator—City votes June 4 on \$25,000 bond for incinerator; E. V. Spence, City Mgr. See Financial News—Bond Issues Proposed.

Tex., Wichita Falls—Rosemont Burial Park, City National Bank Bldg., reported, let contract to Superior Mausoleum Co., Columbus, Ohio, for mausoleum, 50x123-ft.; Georgia marble, tile roof, concrete floor, bronze doors, ornamental iron, etc.; contain chapel, 300 crypts, etc.

Miscellaneous Enterprises

Ala., Birmingham—H. Clay Leath, F. B. Gillum, both Gadsden, reported, acquired plant of Wylam Ice Cream and Ice Co., will enlarge, install additional machinery, increasing daily output by 10 tons.

Ala., Troy—J. F. Walter Paving Co., Inc., capital \$50,000, chartered; J. F. Walter, Walter J. Bryson, Frances K. Walters.

Ala., Tuscaloosa—Tuscaloosa Packing Co., reported, contemplates enlarging plant.

Ark., Blytheville—Barnes Ice Cream Co., G. S. Barnes, Pres., recently merged with Midwest Daily Products Co., Duquoin, Ill.,

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reported, installing equipment in local plant for creamery.

Ark., Camden—International Paper Co., 100 E. 42nd St., New York City, reported, acquired 142,566 acres land, located in Hot Spring, Clark, Garland, Grant and Dallas Counties; also reported, let contract to Malvern Brick and Tile Co., Malvern, for 4,000,000 bricks to be used in constructing paper plant.*

Ark., Fort Smith—Acme Spring Bed & Mattress Co., 1401 N. First St., reported, plans erecting \$15,000 plant, 1-story, 75x20 ft.; Wheeler & Bassham, Architects, Kennedy Bldg.

Ark., Hot Springs—Mountain Valley Water Co., August Schlafly, Pres., 3675 Olive St., St. Louis, Mo., plans production of ginger ale and carbonated drinks, daily output 48,000 bottles; F. I. Barnett, Supt.

Ark., Little Rock—Little Rock Bottling Co., 1107 W. Seventh St., let contract to P. L. Johnson & Co., 1700 Pine St., at \$9000 for plant addition, 37½x140 ft., brick, reinforced concrete, built-up roof; daily output 1000 cases bottled carbonated beverages; A. N. McAnich, Archt., 2821 Wolfe St.*

Ark., Luxora—Drainage, Construction, etc.—Vollmer & Son, capital \$25,000, incorporated; Frank Vollmer, Pres.; C. W. Vollmer, Sec.

Ark., Osceola—Drugs—J. C. Brickley & Co., capital \$15,000, incorporated; D. S. Laney, F. A. White, P. C. Rothrock.

D. C., Washington—Ambassador Market Co. Inc., capital \$25,000, chartered; Walter L. Hibble, 1444 18th St. N. W.; Frances Hibble, Geo. Hibble.

D. C., Washington—Colonial Ice Cream Co. organized; B. L. Hartz, Pres.-Gen. Mgr.; W. E. Cumberland, Sec., 3221 Sixth St. N. W.; establish plant; equipment purchased.

D. C., Washington—Valley Vista Apartment House Co. Incorporated; Wm. S. Phillips, 1432 K St. N. W.; Theodore Michael, 27 New York Ave. N. E.; A. M. Rennoe.

Fla., Apalachicola—Franklin Construction Co. incorporated; H. G. Fannin, H. L. Flowers, C. C. Moore.

Fla., Fort Pierce—Hansen Brothers, reported, let contract to C. E. Cahow, Sunrise Theater Bldg., for shrimp packing house.

Fla., Ft. Pierce—Pettas Cafe, Inc., capital \$10,000, chartered; John Pettas, Geo. Russo.

Fla., Miami—Good Humor Ice Cream Co., capital \$25,000, incorporated; Harry B. Burt, C. T. Schreiber.

Fla., Miami—Florida Plumbing Supply Co. Inc., chartered; Meyer Schwartz, 519 N. W. Third Ave.; Geo. W. Larson, Russell Gill.

Fla., Sanibel—Casa Ybel Hotel Corp., capital \$50,000, chartered; C. J. Knapp, Cyrus Q. Stewart, Geo. D. Presson.

Fla., Sarasota—Sarasota Candy Shop, Inc., capital \$10,000, chartered; Gus Lucas, Geo. Combs, Dimitra Combs.

Fla., Tampa—Plumbing Supplies—Haines, Jones and Cadbury Co., J. Harvey Borton, Pres., 101 Marion St., Tampa, and 1136 Ridge Ave., Philadelphia, Pa., reported, plans erecting \$100,000 warehouse and office building cor. Washington and Eleventh Sts., in the Estuary, plant will embrace three units; main warehouse, 1-story, 120x80 ft.; office and show room in front of building, 62x25 ft.; concrete foundation, cement floors, brick walls, mill construction; pipe shed and garage 125x26 ft.; G. A. Miller, Contr., 312½ Teriggis St.; C. C. Lowry, local Mgr.; Robert E. Saul, Gen. Mgr. of branches.

Fla., Tampa—Merchandise—The Duro Co., capital \$20,000, incorporated; H. A. MacManusu, Grace L. MacManusu, Mattie Whetstone.

Fla., Tampa—Tampa Leather Co., capital \$75,000, incorporated; S. A. Grimaldi, 3006 Nebraska Ave.; L. Salario, 2910 Central Ave.; J. Barcelona, 2906 Central Ave.

Fla., Tampa—Bell Electricity Co. Inc., capital \$10,000, chartered; Trice M. Bell, F. Homer Bell, Kenneth R. Nisbet.

Fla., Jacksonville—Bay Secrest Electric Co. Inc., capital \$50,000, chartered; R. E. Bay, W. H. Secrest, 2333 Waller St.

Fla., Orlando—Chinaware, etc.—Allen & Co. Incorporated; F. W. Allen, 305 Livingston St.; E. H. Allen, 11 W. Concord St.; Charlotte Allen.

Fla., Vero Beach—Vero Beach Steam Laundry, Inc., capital \$10,000, chartered; J. W. Ball, Oscar Bufo, Ruth P. Ball.

Fla., West Palm Beach—Dairy etc.—Royal Palm Produce Growers, Inc., capital \$10,000, chartered; N. J. Murphy, Harvey G. Woods, Geo. W. Bryson.

Ga., Atlanta—Economy Drug Co., 207 E. Courtland St., Cincinnati, Ohio, reported,

plans erecting \$300,000 factory and warehouse, also remodeling third and fourth floors of Peachtree Arcade building to be used as offices, cost about \$100,000; Pringle & Smith, Architects, Atlanta Trust Co. Bldg.

Ga., Atlanta—Drugs—Mineral Tonic, Inc., Wynne-Claughton Bldg., capital \$25,000, chartered; John W. Owen, Pres.; L. L. Passmore, Sec.-Treas.

Ga., Brunswick—Alonzo Brothers plans establishing cigar factory, leased building on Bay St.

Ga., Macon—Spiller's Restaurant Co., 470 Mulberry St., capital \$10,000, incorporated; W. A. Spiller, 227 Bond St.; J. A. Spiller, B. G. Spiller.

Ga., Cuthbert—See Woodworking Plants.

Ga., Dawson—Southern Cotton Oil Co., reported, building \$75,000 peanut shelling plant; operate in conjunction with oil mill.

Ga., Hawkinsville—Publishing—The News and Dispatch Building, M. W. Harris, let contract to W. D. McEachern, to rebuild burned structure on Commerce St., printing machinery and equipment purchased; building owned by W. A. Mason.*

Ga., Savannah—White Service Laundry incorporated; H. Clyde Hayslip, W. T. Waites.

Ga., Waycross—Waycross Commercial Hotel Co., capital \$150,000, incorporated; Herbert W. Wilson, L. B. Harrell, Oscar Lott.

La., Monroe—Whitehead Construction Co., Inc., chartered; M. M. Whitehead, Adolph Wolff, 906 N. Second St., R. F. McHenry.

La., Monroe—Monroe Transfer & Warehouse Co., Inc., capital \$25,000, chartered; N. E. Dawson, Monroe; W. H. Johnson, 744 Wilkinson St., and R. F. Kayser, 3450 Johnette St., both Shreveport.

La., New Orleans—Everday Coffee Co. Inc., capital \$10,000, chartered; Edward A. Kunz, Pres.; Theodore Kunz, Sec.-Treas.

La., New Orleans—Sub-contracts for Good-year Tire & Rubber Co.'s building, Carrollton Ave. and St. Louis St., as follows: Albbert Weiblen Marble Co., 521 City Park Ave., marble work; Forest-Wahden Sash and Door Co., 3503 D'Hemecourt St., mill work; Kin-near Manufacturing Co., Hibernia Bldg., for steel rolling doors.

La., New Orleans—Electric Light Fixtures, etc.—Solar Studio, Inc., capital \$40,000, chartered; Percival H. Stern, Carondelet Bldg.; O. G. H. Rasch, 2611 Marengo St.

La., New Orleans—Louisiana Salvage Process Co., Inc., capital \$50,000, chartered; Fred D. Hesley, 200 N. Howard St.; Nat. W. Bond, 409 Marine Bank Bldg.

Md., Baltimore—Men's Clothing—Cohen, Goldman & Co., 45 W. Eighteenth St., New York City, will occupy manufacturing building to be erected on site bounded by Aisquith, Cur-tain and Robb St., 4-story, 85x185 ft., steel, brick, daylight construction; employ about 800 persons; estimated cost \$150,000; Herman F. Doeleman, Engr., 516 N. Charles St.; John H. Ferguson, Owner, 1918 Harford Rd.; award contract about May 1.

Md., Baltimore—Anchor Post Fence Co., 9 E. Thirty-eighth St., New York City, reported plans establishing branch plant at Canton; acquired site on Eastern Ave. between Thirty-fifth St. and Canton Railroad; erect plant, containing about 100,000 sq. ft. ground floor space; estimated cost of structure and equipment \$500,000; building operation to start in June; employ several hundred persons when in full operation.

Miss., Jackson—Gulf States Creosote Co., Hattiesburg, reported, plans building plant on site known as the H. D. Holder pecan grove; estimated cost \$175,000, employ about 150 persons.

Miss., Jackson—Hinds County Water Co., capital \$20,000, incorporated; R. H. Green, 605 S. Gallatin St.; H. O. Pate, Terry Rd.

Miss., Yazoo City—Delta View Cheese Factory, incorporated; M. M. Brister, F. S. Liebig.

Miss., Yazoo City—See Woodworking Plants.

Mo., Joplin—Advertising Novelties—Meeker Co., Corey Meeker, Pres., Third and Michigan Sts., purchased site on E. Seventh St., plans erecting 2-story factory building.

Mo., Springfield—Anchor Broom Manufacturing Co., J. W. Sanders, Pres., 608 W. Chase St.; erect building Boonville Ave.

Mo., St. Louis—Cotton Batts. Pads, etc.—F. Burkart Manufacturing Co., O. R. Burkart, Pres., 4900 N. Second St., offering 30,000 shares of preference stock and 10,000 shares common stock through McCluney & Co., 418 Olive St.; Lorenzo E. Anderson & Co., 711 St. Charles St. and Knight, Dysart & Gamble, 401 Olive St., all St. Louis; Keane, Higbie & Co., Buhl Bldg., Detroit, Mich.

Mo., St. Louis—Mercantile—Stanley Gilbert & Co., Inc., chartered; F. M. Saigh, Jr., E. Lustig, L. Smith, 461-A Page St.

Mo., St. Louis—Cap Sheaf Bread Co., 1112 N. Kingshighway, increased capital, \$40,000 to \$50,000.

Mo., St. Louis—Central Paper Box Co., 2106 Walnut St., reported, erecting \$30,000 daylight factory building cor. Walnut and Jameston St., 2-story, 50x150 ft.; Wedemeyer & Nelson, Architects, Wainwright Bldg.

Mo., St. Louis—Paints, etc.—Delta Lacquer & Products Co. Incorporated; S. M. Koplar, 1241 Hamilton St.; W. E. Fogarty, A. J. Klumn.

Mo., St. Louis—Montrose Bottling Co., capital \$10,000, incorporated; H. Burstein, J. Burstein, 1144 Bayard St.; L. Edelman, 5325a Ridge St.

N. C., Charlotte—Community Book Shop, capital \$50,000, incorporated; A. L. James, Jr., 12 Hermitage Ct., Myers Park; Charles E. C. Griffith, Johnston Bldg.; R. Brockman.

N. C., Elizabeth City—Itsreal Ice Cream, Inc., capital \$100,000, chartered; F. A. Wineke, Reisterstown, Md.; S. W. Wineke, Elizabeth City.

N. C., Greensboro—Contracting, etc.—J. N. Coe & Co., capital \$500,000, incorporated; J. N. Coe, 306 American Bldg.; A. G. Alexander, 608 Douglas St.; E. R. Tucker.

N. C., Hendersonville—Hendersonville Ice Cream Co., capital \$100,000; V. O. Garrison, S. D. Gibson, J. R. Gibson.

N. C., High Point—High Point Warehouse and Forwarding Co., capital \$100,000, incorporated; S. H. Tomlinson, Tomlynhurst; F. N. Tate, 305 Hamilton St.; S. L. Davis, 413 S. Main St.

N. C., Kings Mountain—Merchandise—Quality Store, Inc., capital \$10,000, chartered; J. W. Pearlstone, Olar, S. C.; H. Karesch, Lincolnton, N. C.

N. C., Raleigh—Mercantile—McRae Co., capital \$250,000, incorporated; M. W. McRae, T. L. McRae, both Rockingham, N. C.; W. E. Debnam, Raleigh.

N. C., Rosemary—Mercantile—S. R. Glasgow & Co., Inc., capital \$25,000, chartered; S. R. Glasgow, M. A. Glasgow, S. C. Glasgow.

N. C., Wilmington—Westover Farms, Inc., capital \$50,000, chartered; W. E. Kyke, Seaboard Bank Bldg., A. S. Pope, T. A. Bain, New Kirm Bldg., all Norfolk, Va.

N. C., Wilmington—Amusement Beach—E. P. Yates, Pres., Carolina Beach Corp., reported, let contract to Davis Construction Co., Beaufort, for improvements, including dredging and beautifying lake, build hard surface roads around lake, etc.

N. C., Wilson—Alpin Plumbing and Heating Co. Inc., capital \$25,000, chartered; J. E. Alpin, 160 Tarboro St.; H. A. Raper, M. D. Etheridge.

N. C., Winston-Salem—Merchandise—Twin-City Produce Co., capital \$10,000, incorporated; E. G. Horn, F. A. Smithdeal, Miller St.; W. F. Crockett.

Okla., Tulsa—Monahan Plastering Co., Clinton Bldg., capital \$25,000, incorporated; Joe Stone, 1624 N. Lewis St.; Frank Hickman, 1402 N. Elwood St.; Gerald F. O'Brien, Court Arcade Bldg.

Okla., Tulsa—Eoff-Troutman Furniture and Hardware Co. Incorporated; W. R. Eoff, 1308 S. Indian St.; E. P. Troutman, 1224 S. Wheeling St.; W. B. Richards, Atco Bldg.

Okla., Tulsa—Tulsa Barber Supply Co., capital \$10,000, incorporated; H. A. Breitenstein, F. N. Vaughn, 847 N. Birmingham Pl.

Okla., Waurika—Waurika Amusement Co., capital \$15,000, incorporated; W. H. Divers, E. D. Sessions, G. A. Nelson.

S. C., Columbia—J. W. Dougherty, 1410 Taylor St., has permit for 2-story dyeing and cleaning plant, 1408 Taylor St., cost about \$18,000.

S. C., Columbia—Waldrop Heating and Plumbing Co., capital \$10,000, incorporated; L. F. Waldrop, F. M. Gay, D. G. Gay.

S. C., Greenville—City let contract to American-La France Fire Engine Co. Inc., Elmira, N. Y. for new fire fighting equipment. Address City Clerk.

Tenn., Brownsville—Universal Washboard Co., capital \$20,000, incorporated; Robert L. Sherrod, F. W. Whitehurst, G. G. Mulherron.

Tenn., Chattanooga—Chero-Cola Bottling Co., capital \$150,000, incorporated; S. A. Christian, Birds Mill Rd.; W. E. Tomlinson, 1510 Bailey Ave.; S. B. Parks, E. Missionary Ridge.

Tenn., Memphis—Memphis Triangle Publishing Co., 203 Hernando St., capital \$10,000, incorporated; T. J. Johnson, 743 Austin St.;

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El. B. Williams, Bank of Commerce Bldg.; H. M. Burchett.

Tenn., Jamestown—Prof. A. R. Hogue, reported, acquired Fentress Countian, will publish.

Tex., Austin—A. C. Baldwin & Sons, 400 Congress St., reported, plans erecting new printing plant, acquired site on W. Eighth St. near Colorado St.

Tex., Austin—E. L. Steck Co., 909 Congress St., contemplates building printing plant, Ninth and Guadalupe St.

Tex., Amarillo—Southwestern Engraving Co., Ben H. Williams, Mgr., 707½ Tenth St., Wichita Falls, plans establishing branch plant, Seventh and Van Buren St.; equipment purchased.

Tex., Amarillo—Reed Sheet Metal & Roofing Co. Incorporated; B. G. Reed, H. M. Reed, H. B. Norwood.

Tex., Austin—Macry-Southern Baking Co., 1512 Lavaca St., plans plant addition, brick; install dough mixer and ovens; daily output 4000 lbs. bread, cakes, rolls, etc. See Want Section—Machinery and Supplies.*

Tex., Baytown—Baytown Drug Stores, Inc., capital \$10,000, chartered; C. K. Fortinberry, Hugh Echols, Jr., E. F. Polk.

Tex., Beaumont—Pearl Street Hotel Corp., capital \$300,000, chartered; W. O. Keith, John H. Crooker, James Ruskin Bailey.

Tex., Beaumont—Texas Candy & Specialty Co., Vincent Fertilla, Mgr., 810 K. C. S. St., reported, let contract to W. F. Daggett, Beaumont, for new building on Laurel Ave.

Tex., Beeville—Franklin Stroock, San Antonio, plans establishing candy factory.

Tex., Brownsville—Brownsville Herald Publishing Co., Thirteenth and Adams St., let contract to Homer L. Fitch, at \$16,880 for new plant, 1-story, 50x120-ft., hollow tile, brick, concrete, cement floor, composition roof; install \$20,000 equipment, including duplex tubular press, 16 page; motor, etc., furnished by Goss Printing Press Co., 1535 S. Paulina St., Chicago, Ill.*

Tex., Childress—Hargrave Laundry, Inc., capital \$30,000, chartered; A. C. Hargrave, Mrs. Ruth Hargrave.

Tex., Dallas—Bennett Printing Co., reported, let contract to L. M. Burford, 327 S. Windomere St., for factory building, 1819-29 Corsicana St.; 1-story, brick; cost about \$30,700; printing plant to be moved from Paris.

Tex., Dallas—Browning-Ferris Machinery Co., increased capital, \$150,000 to \$200,000.

Tex., Donna—Great Western Meter Co., R. J. Lynn, Pres., Oakland, Cal., reported, plans establishing assembling plant for distribution of water meters for irrigation purposes.

Tex., Floydada—J. A. Hollums has permit for greenhouse, 22x100-ft.

Tex., Fort Worth—Uptown Amusement Co., incorporated; Herman Marx, Louis Richker, 1928 Dartmore Court; J. P. Murrin.

Tex., Fort Worth—Alta Vista Creamery Co., North and Macon St., has permit for \$20,000 repairs to plant, concrete and brick.

Tex., Fort Worth—Fundamental Publishing Co. Incorporated; Dr. Frank Norris, G. B. Vick, Mrs. D. S. Rains.

Tex., Houston—Gulf Publishing Co., A. L. Burns, V. P. and Gen. Mgr., Chenevert and Dallas St., plans erecting \$50,000 publishing plant, 2-story, acquired site, Buffalo Drive at Rochow St., 400x300x300-ft.

Tex., Houston—Lime, Cement, etc.—W. L. Macatee & Sons, 103 Austin St., reported, acquired 3 acre site on Leeland St., plans erecting plant.

Tex., Houston—Swilley Plumbing Co. Incorporated; Wm. E. Swilley, Geo. C. Swilley, 1407 Indiana St.; L. A. Wilkening.

Tex., Lone Oak—R. M. Emerson, reported, plans creamery plant, erect stucco building, has site.

Tex., Mexia—Texas Glove & Garment Co. increased capital, \$40,000 to \$62,000.

Tex., Mount Pleasant—Amusement Park, etc.—O. Clement and associates developing Dallas Club and amusement park, build fish hatchery, 30-acre lake, swimming pool, etc.; Joe Savone in charge of amusement park; D. D. Swindell, Archt., North Texas Bldg., Dallas, for entire project; J. E. Finks in charge additional construction work.

Tex., Nacoma—Justin Leather Goods Co. increased capital, \$50,000 to \$75,000.

Tex., Olney—Butler Dairy, E. S. Cunningham, Owner, plans erecting creamery building.

Tex., San Angelo—Model Laundry Co. having new plans made for \$40,000 laundry building, 1 and 2-story, 40x100 ft., brick and

reinforced concrete; Swartz & Hamberlin, Archts., 415 Citizens National Bank Bldg.

Tex., San Angelo—Aztec Dry Cleaning Co., reported, let contract to A. W. Balfanz & Bro. at \$20,835 for building on Irving St., 1 and 2-story, 40x100-ft., Spanish architecture, reinforced concrete frame, brick, concrete floors, Johns-Manville class "A" roof, metal ceilings, steel sash and trim, wire glass, steel rolling doors, tile and rubber tile floors, interior tile, Swartz & Hamberlin, Archts., Central National Bank Bldg.

Tex., San Angelo—City votes June 4 on \$25,000 bonds for fire alarm system; E. V. Spence, City Mgr. See Financial News—Bond Issues Proposed.*

Tex., San Antonio—Mrs. Consuelo Auiraga, 708 Dolodosa St., has permit for \$22,000 print shop, 3-story, brick and concrete.

Tex., Texas City—Charles J. Blume, San Leon, and associates, reported, plans establishing fig preserving plant, minimum of 641,000 lbs. figs expected to be handled first year, increasing plant as business demands; acquired site, organize \$50,000 company.

Tex., Waco—Merchandise—Ward-Dossett-Floyd Co., capital \$150,000, incorporated; J. L. Ward, 1515 Columbus Ave.; Andrew J. Dossett, 1503 Columbus Ave.; F. H. Floyd, 1510 Pine Ave.

Va., Fredericksburg—Maryland and Virginia Ferry Co., capital \$250,000, reported, establish ferry service across Potomac River, between Morgantown, W. Va., and Potomac Beach, Va.

Va., Hopewell—Power Plant—See Electric Light and Power.

Va., Lynchburg—Mercantile—Kay-Selly Stores, Inc., capital \$40,000, chartered; David Kaufman, Pres.; Whiting C. Faulkner, Sec.

Va., Mathews—Industrial Construction Co., Inc., chartered; A. L. Hepler, Pres.; N. R. Hepler, Sec.

Va., Norfolk—Main Street Meat Markets, Inc., capital \$10,000, chartered; Sideris Koucouakis, E. P. Banks.

Va., Norfolk—Drugs—Fountain & Smith, Inc., 601 Botetourt St., capital \$10,000, chartered; W. W. Fountain, W. A. Smith.

Va., Norfolk—Cavaller Cleaning, Pressing and Dye Works, Inc., chartered; W. J. Ralston, Pres.; Charles W. Wade, Sec.

Va., Richmond—Duplex Envelope Co., 1339 W. Broad St., reported, acquired western half of Coliseum property on W. Broad St., will remodel, build additional story, lease portion of building to Phelps-Vaughn-Proffitt Motor Co., 1633 W. Broad St.; expend approximately \$225,000.

Va., Staunton—Staunton Apartment Corp., chartered; Byrd Breeden, F. P. Loth, both Staunton; J. Lee Davis, Richmond.

Va., Troutville—Troutville Poultry Farm, Inc., E. C. Firestone, Mgr., will erect 120x20-ft. building, wood and metal, cement and wood floor construction by day labor; install hot water furnace, wall radiators and pipe; Nelson Hardware Co., 17 Campbell Ave., S. E.; R. L. Lowe and Adams, Payne & Gleaves, Inc., 508 Jefferson St. S., all Roanoke, Va., furnishing equipment. See Want Section—Building Materials and Supplies.*

W. Va., Bluefield—Whirlpool Washer Co., capital \$25,000, incorporated; W. P. Tabor, Mulberry St.; H. R. Bondhammer, J. A. Tabor.

W. Va., Clarksburg—Clarksburg Supply and Equipment Co., 600 E. Pike St., reported, establish plant to fabricate structural steel; also install ready-mixed concrete plant.

W. Va., Northview (Mail Clarksburg)—Rolland Sheet Glass Co., Clarksburg, W. Va., capital \$100,000, incorporated; Eugene Rolland, Aristide Rolland, Charles Rolland, all Clarksburg, reported, acquired Lafayette Window Glass Co. plant, erect factory on same site, cost approximately \$250,000.

W. Va., Romney—Vinegar—National Fruit Products Co. of Winchester, Va. and Martinsburg, W. Va., reported, contemplates establishing vinegar plant.

W. Va., Sistersville—Town plans purchasing additional fire fighting equipment. Address Town Clerk.

W. Va., Welch—Peerless Steam Laundry Co., John W. Blakely, Mgr., will rebuild dry cleaning department, burned at loss of \$60,000.

W. Va., Wheeling—The Air Reduction Sales Co., 342 Madison Ave., New York City, reported, acquired all assets of Interstate Oxygen Co. of West Virginia, with plants at Wheeling, Steubenville, Ohio, and Portsmouth, Ohio, and all assets of Compressed Gas Manufacturing Co. of West Virginia, which has an acetylene manufacturing plant

at Huntington; will take over latter plant immediately, plans under way for new units.

Motor Bus Lines and Terminals

Fla., Green Cove Springs—Clark's Bus Line, Inc., capital \$10,000, chartered; W. M. Clark, M. W. Stewart, Arthur Whittaker.

Tex., Freeport—White Star Bus Line, J. B. Brockenbrough, Pres., 300 Park Ave. establish bus line from Freeport via Angleton, Danbury, Loverpool, Chocolate Bayou, Alvin and Pearland, Tex.; from Columbia, via Angleton, Tex. via I. & G. Highway No. 19; terminals at 1211 Texas Ave., Houston and 300 Park Ave., Freeport.*

Motor Cars, Garages, Filling Stations

Fla., Holly Hill—Holly Hill Auto Parts Co. Inc., chartered; G. E. Rager, B. H. Ulrey.

Fla., Jacksonville—R. J. Gallespie, Baldwin Bldg., has contract for 4-story building, Riverside Ave. and Roselle St., to be occupied by Buick Motor Co., 80x250 ft., 4-story; estimated cost \$250,000.*

Fla., Lakeland—Omohundro Motor Co., capital \$15,000, incorporated; R. H. Omohundro, J. E. Rent, A. R. Carver.

Fla., St. Augustine—W. H. Blackwell, Daytona Beach, reported, purchased The Day and Night Garage, Granada St., owned by J. E. Hempstead, will operate.

Fla., Sarasota—Orange Blossoms Service Station, Inc., chartered; J. A. McCall, K. L. Dean, Glen D. Shipton.

Fla., St. Petersburg—Automotive Sales and Service Co., incorporated; O. R. Albright, E-536 18th Ave. N.; E. D. Bailey, D. C. Etheridge.

Fla., Vero Beach—Arnold Motor Co., Inc., capital \$25,000, chartered; Roland Arnold, Chester C. Gow, Chas. A. Mitchell.

Fla., West Palm Beach—Associated Steam Motors, Comeau Bldg., reported, organized by C. D. Coleman, Smith & Doane, 531 Upland Rd.; J. D. Courtney; plans manufacturing steam-propelled automobiles; initial output 300 cars per year; E. S. Fortune, Designer; Norton L. Dods, Consultant.

Ga., Swainsboro—J. R. Coleman will erect show room and garage, to be occupied by Coleman Smith Chevrolet Co.

La., Monroe—Lennon Motor Co., Hugh Lennon, N. Third St., reported, acquired site cor. N. Fourth and Washington Sts., erect building as an auxiliary to present building, first floor used for show rooms, second for storage of cars and third floor for shop repair work; building to be joined forming archway in alley.

La., New Orleans—John Liuzza, 340 Carondelet St., let contract to Dudley & Wilke Construction Co., 406 Stern Bldg., for \$60,000 garage building, pile and concrete foundation, brick walls, composition roof, 1½-story, 265x125-ft., work begun; other contracts include rolling steel doors, Klinear Manufacturing Co., Columbus, Ohio; roof trusses, McKeown Bros., 112 W. Adams St., Chicago, Ill.; roofing, J. J. Clarke Co., 1601 Julia St.; glazing, Ulbrich Plate Glass Co., 808 Baronne St.; reinforcing steel, Ole V. Olsen, 822 Perdido St.; structural steel, P. C. Dowell, City Bank Bldg.; mill work, American Manufacturing Co., 2119 Louisiana Ave.; electric wiring and fixtures, Richardson Electric Co., Prytania St.; plastering, Winston Brothers, Pythian Temple; pile driving, Ed. Hemenway, 2104 Baudin St., all New Orleans.*

La., New Orleans—Dudley & Wilke Construction Co., Stern Bldg. has contract at \$54,163 for garage, Jefferson Davis Parkway and Calliope St.; Rathbone DeBuys, Archt., Hibernia Bldg.

La., Shreveport—E. A. Mabry soon invite bids for addition to garage, 1406 Jordan St.; brick, concrete floors; cost about \$13,000; E. A. George, Archt., 1146 Kings Highway.*

Md., Cumberland—Standard Oil Co. has permit for service station, Green and Fayette St.

Miss., McComb—Dr. D. T. Brock, reported, purchased Centenary Methodist Church property, remodel for filling station and automobile accessory shop.

Miss., Philadelphia—The Texas Co., Earl V. Tidwell, representative, erect drive-in filling station, Byrd St.

Mo., St. Louis—Guarford Realty and Investment Co. has permit for automobile tire salesroom, 2930 Olive St., 2-story, 50x88-ft., brick, tar and gravel roof; W. C. Harting Construction Co., Builders, 722 Chestnut St.; Nolte & Nauman, Archts., Fullerton Bldg.

Mo., St. Louis—Automobile Accessories—Gray Seal Products Corp., capital \$12,000,

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chartered; H. J. Elles, G. W. Curran, C. A. Woolley, 6253 North Drive.

N. C., Asheville—Automobile Accessories—L. C. Wilson & Co., capital \$50,000, chartered; L. C. Wilson, 41 Furman Ave.; L. W. Aiken, J. P. Aiken, Jackson Pk., Woolsey.

N. C., Chadbourn—Elliott Motor Co., capital \$18,000, chartered; J. B. Elliott, Frances B. Elliott, W. C. Edmunds.

N. C., Rosemary—Bound's Service Station, Inc., capital \$50,000, chartered; S. J. Bounds, W. T. Council, G. C. Grizzard.

N. C., Tryon—Garage—J. H. Stackhouse, Inc., capital \$25,000, chartered; J. H. Stackhouse, Zoe Stackhouse, both Tryon; F. S. Wetmur, Blyth St., Hendersonville.

Okla., Ada—Durham Service, Inc., capital \$10,000, chartered; J. L. Durham, Thomas R. Harris, John R. Harris.

Okla., Oklahoma City—Geo. Campbell, Main St., let contract to Chas. M. Dunning Construction Co., 420½ N. Hudson St., for erecting service station, 1-story and basement, 50x100-ft., reinforced concrete, brick walls, cement floor, tar and gravel roof, estimated cost \$25,000, Tonini and Bramblish, Archts., 416½ W. Main St.*

S. C., Lexington—Lexington Chevrolet Co., capital \$10,000, incorporated; R. E. Ebert, Pres.; R. E. Thorn, Sec.-Treas.

Tenn., Chattanooga—E. Brook Brantley let contract to A. F. Hahn, Chamberlain Bldg., for tire and gasoline service station, 205 Market St., brick and concrete, 1-story and basement, 98x200 ft.; cost about \$35,000; Jas. G. Gauntt, Archt.

Tenn., Memphis—Chevrolet Motor Co., plans erecting distributing plant, cor. S. Front St. and Huling Ave.; probably award contract to H. A. McGuire & Co., Dermon Bldg., 2-story, brick and concrete, cost about \$125,000; James and John Canale, Owners.*

Tex., Albany—Russ-Webb Motor Co., reported, let contract to Jack Lapham at \$10,500 for sales room, garage and filling station, Main St., fireproof.

Tex., Dallas—Dallas Star Motor Co., capital \$20,000, incorporated; W. B. Smith, 3418 Thomas St.; H. L. Smith, 228 N. Ewing St.; F. G. Donovan.

Tex., Fort Worth—J. W. McCarthy has permit for \$10,000 garage, Twenty-third and N. Main St., brick and steel.

Tex., Greenville—John Carsey let contract to Ardis Lee for service station, cor. Lee and Sayle St., to be occupied by Magnolia Petroleum Co.

Tex., Greenville—Bowman Auto Co., capital \$20,000, incorporated; J. W. Bowman, Al. H. Birdsong, Fred L. Birdsong.

Tex., Marion—Marion Motor Co., capital \$30,000, incorporated; Wm. Krueger, Herman J. Krueger, Jacobine Krueger.

Tex., Mercedes—Fore Chevrolet Co., capital \$25,000, incorporated; Clyde Fore, Albert Edson, Anna McC. Fore.

Tex., Houston—Gulf Refining Co., Port Arthur, reported, purchased site Franklin and San Jacinto St., erect filling station.

Tex., San Antonio—Dr. L. L. Shopshire, Propr. Alemita Garage, Martin and Jefferson St., receiving bids for second story addition, brick, concrete, hollow tile and stucco; Atlee B. and Rob. M. Ayres, Archt., 626 Bedell Bldg.

Tex., Wichita Falls—Payne's Auto Storage, Inc., chartered; Grady Payne, 2004 Collins Ave.; E. S. Segall, 1309 Grant St.; Ida Segall.

Va., Roanoke—Standard Gas and Oil Supply Co., Glifton Forge, plans erecting \$20,000 service and filling station; acquired site at 12th and Church St.

Va., Warrenton—Warrenton Motors, Inc., chartered; L. C. Anderson, Pres., J. T. Fletcher, Sec.

Railway Shops and Terminals

Ga., Rome—Southern Railway System, G. L. Sitton, Ch. Engr., Charlotte, N. C., reported, plans constructing system of water stations, coal chute, small shop, boiler house, cinder conveyor, and other plants near Atlanta junction; cost approximately \$125,000.

S. C., Columbia—Southern Railway System, G. L. Sitton, Ch. Engr., Charlotte, N. C., reported, let contract to Brooks-Callaway Co., McGlowen-Brown Bldg., Atlanta, Ga., for excavating and grading for new locomotive shops at Andrews yard site, J. M. Collins in charge; cost about \$1,000,000; Consolidated Engineering Co., 20 E. Franklin St., Baltimore, Md., will erect shops; J. I. Crout, Field Engr. of Consolidated Engineering Co., in charge of preliminary work; R. E. Helderman, Superintendent of concrete work; excavation begun.

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Ala., Abbeville—See Sewer Construction.

Ala., Birmingham—Jefferson County Bd. of Revenue, Lacy Edmundson, Chmn., plans receiving bids for 5 roads, totaling 14 mi.; 3 mi. Pumphouse Road; 1½ mi. Country Club Road; 5 mi. Docena Road; extending Trussville Road 1 mi.; 1 mi. East Lake Highway; estimated cost \$300,000.

Ala., Birmingham—State Highway Comm., Montgomery, plans expending \$87,500 to pave gaps, fills and bridge approaches on Birmingham-Montgomery Highway, between Birmingham and Mountain Creek.

Ala., Birmingham—City Comm., Eunice Hewes, Clk., plans expending \$54,425 to pave 5 streets and avenues and install sanitary sewers; A. J. Hawkins, City Engr.

Ala., Huntsville—State Highway Comm., Montgomery, plans paving 2 roads in Madison County: Huntsville to Fayetteville; Huntsville to Athens; W. A. McCalla, State Highway Engr.

Ala., Talladega—City receives bids May 4 to improve North St., Hill to Tinney St.; grade, lay Portland cement curbs and gutters, Portland cement concrete sidewalks, asphaltic concrete on concrete base; Warrenite-bitulithic on slag or stone macadam or concrete foundation, sheet asphalt on concrete foundation; one course Portland cement concrete paving, reinforced, etc.; F. H. Powe, City Engr.

Ark., Fayetteville—City, Allan M. Wilson, Mayor, plans paving North College Ave. to city limits.

Florida—State Road Dept., Tallahassee, receives bids May 12 for 5 roads: Bradford County—Road No. 28, grading and drainage structures, 11.12 mi. Union County line to Starke; 12 mi. Starke to Putnam County line; Flagler County—Road No. 4, 13.81 mi. 8-in. Florida limerock base, surface treatment, St. Johns County line to Bunnell; Martin and St. Lucie Counties—Road No. 4, 5.52 and 7.38 mi. plain cement concrete or asphaltic surface on 8-in. Florida limerock base, Vero Beach to Fort Pierce; plans on file and from Div. Engr.; J. L. Cresap, State Highway Engr.

Fla., Bradenton—Manatee County Commrs. plan improving 3 roads: Re-build Bay Shore road from Palmetto to Hillsborough County line; 1 mi. hard-surfaced road from Bay Shore to Piney Point at Bee Line Ferry Landing; complete 6-mi. extension Parrish-Wauchula road, Polk County extension; F. K. Webb, County Engr. See Financial News—Bond Issues Proposed.

Fla., Boynton—City, Harry Benson, Vice-Mayor, plans street improvements. See Financial News—Bond Issues Proposed.

Fla., Fort Lauderdale—Street Dept. will pave street to Colee Bridge, from S. W. Seventh (Second) St. Address City Clk.

Fla., Inverness—Citrus County Commrs., C. E. Connor, Clk., receive bids May 16 for 11.8 mi. grading, drainage and appurtenances, and 16-ft. limestone base, 2-course surface-treated highway; E. V. Camp and Associates, Inc., Consult., Supv. and Testing Engrs., 1 N. Moreland Ave., Atlanta, Ga., Bartow and Jacksonville.

Fla., Lake Butler—Union County plans hard-surfacing Roads Nos. 49 and 56; cost \$350,000. Address County Commrs. See Financial News—Bond Issues Proposed.

Fla., Miami—Biscayne Boulevard Assn., J. O. Little, Vice-Pres., interested in 18-mile scenic loop encircling Biscayne Bay and ocean, linking Miami and Miami Beach; include Biscayne Blvd. from Thirteenth St. to Seventy-ninth St., Everglades Ave. causeway, etc.

Fla., Pensacola—City Commrs. plan widening West LaRue St., Palafox to Barcelona; paving with concrete Brainard, Lee and Blount Sts., between Spring and Palafox.

Fla., St. Cloud—City considering \$120,000 street improvement. Address City Clk. See Financial News—Bond Issues Proposed.

Fla., Wabasso—City plans improving highway west from Florida East Coast Rwy. to city limits. Address City Clk.

Ga., Hahira—City plans street paving. Address City Clk.

Ga., Irwinton—Wilkinson County Commrs.

plan receiving bids for Irwinton-Macon Highway, section of Bee Line Highway, from Macon to Savannah.

Ga., Rockmart—City plans street improvement. Address City Clk. See Financial News—Bond Issues Proposed.

Ga., Valdosta—Lowndes County plans 6-mi. paving and widening State Highway No. 7 from city limits to bridges over Withlacoochee River. Address County Commrs.

Ga., Waycross—City Comm. plans 5 blocks on Screven Ave. Address City Clk.

Kentucky—State Highway Comm., Frankfort, receives bids May 27 for 17 roads: Adair-Cumberland Counties—30 mi. grading and drainage structures, Columbia-Burkesville-Neelys Ferry road, not including town of Burkesville; Boone County—5.3 mi. grade and drain Florence-Warsaw road, Florence to Union; Casey County—9.5 mi. rebuilding Liberty-Russell Springs road, Liberty to Dunnville; Davies County—1.9 mi. surfacing, Owensboro-Fordsville road, Whitesville to Ohio County line; Fulton County—3 mi. surfacing, Fulton Clinton road, from overhead crossing of I. C. R. R. near Buda, to Hickman County line; Graves County—10 mi. grade and drain, Mayfield-Fancy Farm-Bardwell road, Mayfield to Carlisle County line, not including Fancy Farm—8.7 mi. grade and drain, Benton road, Mayfield to Marshall County line; Hardin County—2.9 mi. surfacing, Radcliffe road to Vine Grove, to intersect Dixie Highway near Radcliffe.

In Hart County—4.4 mi. grade and drain, Munfordville-Elizabethtown road, from point north of Munfordville to 1 mi. north of Dividing Ridge—1.8 mi. grade and drain, Munfordville-Elizabethtown road, from L. & N. R. R. crossing—3 mi. south of Upton to near underpass of Bonnierville; Henry-Shelby Counties—8.7 mi. grade and drain, New Castle-Frankfort road, North Pleasureville to Franklin County line; Hopkins-Muhlenberg Counties—4.9 mi. grading and drainage, Northville-Greenville road, from Illinois Central Depot, White Plains to point ¾ mi. west of Greenville, not including Pond River Bridge; Johnson County—4.9 mi. surfacing, Prestonsburg-Paintsville-Salyerville road, from Van Lear road at Dawkins to Mud Lick Creek, not including Paintsville; Madison County—7.7 mi. grade and drain, Richmond-Winchester road, from Richmond to point north of Red House; Metcalfe County—4.5 mi. grade and drain, Edmonston-Greensburg road, Edmonston to point north of Mud Slush School; plans on file and from Div. Engrs.; E. N. Todd, State Highway Engr.

Kentucky—State Highway Dept., Frankfort, received low bids for 35 roads: Todd County—4.3 mi. Fairview-Elkton road; Logan County—8.29 mi. Russellville-Clarksville; 5.634 mi. Russellville-Morgantown; Warren County—8.5 mi. Bewling Green-Bear Wallow; Southern Oil and Tar Co., Clay and River Road, Louisville, \$19,991 using oil, \$18,884 using tar; Nelson County—6 mi. Bardstown-Hodgenville; 3 mi. Bardstown-Springfield; 10 mi. Bardstown-Bloomfield; 10.05 mi. Bloomfield-Lawrenceburg; Washington County—2.55 mi. Springfield-Bardstown; F. G. Breslin, 2615 Crop St., Louisville, \$23,178, oil; \$21,402, tar; Jefferson County—8.7 mi. Louisville-Shelbyville; 10 mi. Louisville-Taylorsville; R. B. Tyler Co., 114 S. Fourth St., Louisville, \$16,257, oil; \$15,175, tar.

In Shelby County—7 mi. Shelbyville-Emmence; Henry County—6.7 mi. Campbellsville-Newcastle; Gallatin County—1 mi. Warsaw-Sparta; Scott County—15.5 mi. Georgetown-Owenton; Franklin County—6.8 mi. Frankfort-Georgetown; Kentucky Road Oiling Co., Frankfort, \$36,419, oil; \$35,053, tar; Campbell County—8 mi. Alexandria-Augusta; Pendleton County—5.2 mi. Williamstown-Falmouth; Eaton Oil Works, Covington, \$11,092, oil; \$10,597, tar; Harrison County—2.3 mi. Cynthiana-Georgetown; Nicholas County—4.9 mi. Paris-Maysville; 2.2 mi. Paris-Carlisle; Montgomery County—3.37 mi. Mt. Sterling-Frenchburg; 9.14 mi. Mt. Sterling-Paris; Carey Reed Co., Guaranty Bank Bldg., Lexington, \$17,838, oil; \$16,909, tar.

In Madison County—5.4 mi. Richmond-Irvine; Mercer County—5 mi. Harrodsburg-Lexington; Lincoln County—5.14 mi. Stanford-Danville; Rockcastle County—7.05 mi. Mt. Vernon-Berea; Boyle County—8.68 mi. Danville-Perryville; 1.3 mi. Danville-Burgin; Carey Reed Co., \$19,158, oil; \$18,203, tar; Pulaski County—2.5 mi. Somerset-Stanford; McCreary County—10.09 mi., Carey Reed Co., \$14,390, oil; \$13,712, tar; Whitley County, 7.31 mi., Corbin-Williamsburg; Bell County—2.13 mi. Middlesboro-Cumberland Gap; 10.5 mi. Pineville-Middlesboro; Southern Oil and Tar Co., \$16,062, oil; \$14,944, tar; Lewis County—8.4 mi. Vanceburg-Maysville; R. B. Tyler Co., \$6,609, oil; \$6,068, tar.

La., Alexandria—City receives bids May 2 to pave Fisk St. with gravel and lay con-

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crete gutters, between Sixth and Tenth St.; plans from City Engr.

La., Baton Rouge—Louisiana Highway Comm., Frank T. Payne, Chmn., plans expending about \$9,000,000 to build 600 mi. state highways, including maintenance of existing roads; J. M. Fourny, State Highway Engr.

La., Baton Rouge—East Baton Rouge Parish Police Jury, F. A. Woods, Sec., receives bids May 10 for 10,440 lin. ft. concrete curb and gutter; furnish and spread 1500 cu. yd. gravel, in Sub-Road Dist. No. 1—"U" (Edgewood Lawn); plans from A. G. Munday, Civil Engr., 201 Wieck Bldg.

La., Lake Charles—Louisiana Highway Comm., Baton Rouge, receives bids May 17 for 2.741 mi. road embankment on De Quincy-Texas Highway, Calcasieu Parish, from point west of Starks to Sabine River; plans on file; J. M. Fourny, State Highway Engr.

Md., Cumberland—Allegany County Road Directors receive bids May 4 for 7,000 ft. grading, 13,500 cu. yds. excavation; plans by D. P. Lefevre, Road Engr.

Maryland—State Roads Comm., Baltimore, receives bids May 3 for 5 roads and 2 bridges; Prince Georges County, 6.4 mi. concrete, State Highway along Southern Maryland Blvd., from end of Cont. P-66 to Wells Corner, Cont. R-70; Frederick County, 7.5 mi. concrete shoulders, between Thurmont and Emmitsburg, Cont. F-16-A; Baltimore County, 5.69 mi. concrete shoulders, along Reisterstown Road, Tobin to Reisterstown, Cont. B-33-B; 5.82 mi. concrete shoulders along York Road, between Pine Hill and Parkton, Cont. B-20-D; Anne Arundel County, 4.13 mi. concrete shoulders, along Annapolis Blvd., Revell to Annapolis, Cont. AB-1-C; Baltimore County, double-span reinforced concrete arch bridge on Philadelphia Road over Little Gunpowder River, two 45-ft. spans, with clear roadway of 24 ft., with necessary fill, etc., Cont. B-82; Harford County, double-span concrete and steel bridge on Philadelphia Road, over Winters Run, two 60-ft. spans, clear roadway of 24 ft., with approaches, etc., Cont. H-54; John N. Mackall, Chmn.; L. H. Stewart, Sec.; plans on file.

Md., Baltimore—Board of Awards receives bids May 2 to grade and pave with cement concrete footways in footway Cont. No. 98; plans on file; Steuart Purcell, Highway Engr.; B. L. Crozier, Ch. Engr.; Howard W. Jackson, Mayor.

Md., Baltimore—Board of Awards receives bids May 4 to grade, curb and pave with 20-100 sq. yd. sheet asphalt on concrete base, streets, in Cont. No. 404; 16,800 sq. yd. cement concrete on concrete base, Cont. No. 405; 8400 cu. yd. grading, Cont. No. 406; plans on file; Steuart Purcell, Highways Engr.; B. L. Crozier, Ch. Engr.; Howard W. Jackson, Mayor.

Md., Baltimore—Board of Awards received low bids from American Paving & Contracting Co., Montebello Ave. and Harford road, at \$60,798 to pave Falt Ave. with sheet asphalt, from Monford to Kenwood, and Linwood Ave. to East Ave.; at \$49,979 to pave 5 streets with sheet asphalt, including Charles and Twentieth Sts., Braddish Ave.; Ward & O'Connell, at \$23,187, to pave with cement concrete, 3 roads, including Enfield, Goodale and Paddington; Howard W. Jackson, Mayor.*

Md., Baltimore—Board of Estimates approved plans to pave sections of 9 streets with sheet asphalt, including Archer, Byrd; costing \$93,700; to pave sections of 11 streets with cement concrete, including Alhambra St., Colorado Ave.; cost \$42,400; widening Biddle St., Lakewood to Kenwood Ave.; Howard W. Jackson, Mayor.

Md., Hyattsville—City, G. H. Carr, Clk., receives bids May 3 for 1,430 sq. yds. concrete sidewalks, 3600 lin. ft. concrete pavement; plans from Robert B. Morse, Ch. Engr., Washington Suburban Sanitary Dist., Ralston Ave., Hyattsville; Irvin Owings, Mayor.

Md., Upper Marlboro—State Roads Comm., Baltimore, receives bids May 3 for 7 mi. Crain Highway, north of Upper Marlboro; John N. Mackall, Chmn.; L. H. Stewart, Sec.

Miss., Belzoni—Humphreys County Chancery Clk., Hutchens, plans receiving bids for about 7 mi. 18-ft. concrete road from Silver City to Midnight.

Miss., Biloxi—City, M. L. Michel, Clk., receives bids May 9 for 11,394 sq. yds. two course sidewalks; plans on file and from City Engr.; John J. Kennedy, Mayor.

Miss., Decatur—Newton County Board of Supvrs. plans 2 roads; From Newton County line, across county east and west; Newton to Union, cost \$450,000. See Financial News—Bond Issues Proposed.*

Miss., Gulfport—Harrison County Board

of Supvrs. receives bids May 7 to surface Biloxi-Cedar Lake road, with 2½-in. sheet asphalt, on 4-in. concrete base, or Bates type concrete; W. S. Hawkins, County Engr. Rescinded contract let to Moore Construction Co.*

Mo., Cameron—City plans paving 2 blocks Pine St. Address City Clk.

Mo., Columbia—City, John S. Bicknell, Clk., receives bids May 2 to repair and resurface Maple Ave., Sixth to Fifth and Fifth to Fourth St.

Mo., Huntsville—Randolph County Commrs. plan expending \$875,000 to build all-weather roads, and \$500,000 to complete State road building in county. See Financial News—Bond Issues Proposed.

Mo., Jefferson City—City, C. B. Steers, Clk., plans paving East Elm, Linn and Jackson St., and Cass Ave.; F. E. Ross, Engr.

Mo., Jefferson City—City plans improving 4 streets, including Cottage Lane, Argonne Ave., Houchin's Blvd., Locust St. Address City Clk.

Mo., Mexico—City plans hard-surfacing 9 blocks of streets, including Washington, Cole. Address City Clk.

Mo., St. Louis—Board of Public Service received low bid from Joseph Kest & Sons, St. Louis, at \$181,852 to rebuild West Pine Blvd., between Grand and Kingshighway Bldgs.; at \$222,734 for Washington Ave., between Fourth St. and Jefferson Ave.

N. C., Asheville—City Commrs., John H. Cathey, Mayor, plan street improvements: Widen Ashland Ave. 12 ft. on each side, Patton Ave. to Phifer St.; widen to 60-ft., and extend Davidson St.; College to Valley St.; widen, straighten and improve Caledonia road, from Baltimore Ave. to city limits at Kenilworth; widen, straighten, etc., Ambroy road, from Carrier Bridge, west along French Broad River; pave Chestnut from Flint St. to west abutment of bridges, estimated cost \$62,473.

N. C., Asheville—Buncombe County Commrs., E. M. Lyda, Chmn., receives bids May 2 for about 63,000 sq. yds. paving on Hominy Valley road, and 2300 sq. yds. paving on street, from Biltmore Ave. to Swannanoa Drive, near Biltmore.

N. C., Asheville—Buncombe County plans paving 4 mi. road from Alexander to Madison County line, on river route from Asheville to Marshall. Address County Commrs.

N. C., Hendersonville—Henderson County Commrs. and County Road Trustees plan letting contract in about 10 days to grade Mills River-Hendersonville road between Mills River and Buncombe County line.

N. C., Warrenton—City, R. J. Jones, Clk., receives bids May 3 for 46,000 sq. yds. tar and asphalt surface treatment on portion of soil street, and 11,000 sq. yds. seal coat on asphalt pavement; plans on file; Jannette-Boyd, Engrs., Henderson, N. C.

Okla., Medford—Board of Trustees plans about 61½ blocks full width pavement, and 4 blocks surfacing of less width, in business district.

Oklahoma—State Highway Comm., Oklahoma City, received low bids for 13 roads: Stephens County—2 mi. concrete, east of Duncan, Hanson-Pierce Contracting Co., Oklahoma City, \$51,492; 2 1/3 mi. concrete, east of Marlow, Hanson-Pierce Construction Co., \$60,249; Kingfisher County—3 mi. grading, drainage structures and concrete paving, south from Dover, Asplund Construction Co., \$71,600; 3½ mi. concrete, north from Hennessey to Garfield County paving, B. J. & L. Paving Co., Enid, \$89,646; Stephens County—5 1/5 mi. concrete, west from Comanche, Reynolds & Sutton, Tyler, Tex., \$124,122; Creek County—7 mi. concrete, from Depew west, Altman & Rogers, Oklahoma City, \$182,441; Logan County, 6 mi. concrete, from Cimarron River north, McGuire & Cavanaugh, \$158,018; Woods County—1 mi. concrete, Waynoka, south, Ray A. Murray, Enid, \$32,408; Alfalfa County—1½ mi. concrete, Carmen, north, Ray A. Murray, \$42,306; 7 mi. concrete, Tonkawa east toward Ponca City, B. J. & L. Paving Co., \$180,022; 3¼ mi. Okmulgee, west, Ellis & Lewis, Surety Bldg., Muskogee, \$97,045; 8 4/5 mi. concrete, Chickasha, south, Reinhart & Donivan, Trades Natl. Bank Bldg., Oklahoma City, \$174,672; Stephens County—2 mi. concrete, Duncan, east, Hansen-Pierce, \$51,492.*

South Carolina—State Highway Dept., Columbia, received low bids for 6 roads and 11 bridges: Charleston-Georgetown Counties—reinforced concrete and timber bridge over Santee River, Route No. 40, Salmons-Clement Co., 9 State St., Charleston, \$113,918; Chester County—3.1 mi. surfacing, Route 91, between Lockhart and York County line, Paul Gilmore, Spartanburg; Edgefield County—49 mi. Route No. 21, approaches to Turkey Creek Bridge, Langford & Wicker, Newberry, \$7854;

Marion County—7.9 mi. grading, Route No. 3, Mullins to Nichols, W. B. Boyle Co., Sumter, \$30,959; reinforced concrete bridge over Little Pee Dee River, Simons-Mayrant Co., Chapel St., Charleston, \$24,213; Orangeburg-Clarendon Counties—clay on sand fill approaches to Santee River Bridge, Routes 4 and 30, Killian & Watson, St. Paul, \$37,250; Charleston County—reinforced concrete overhead bridge over Atlantic Coast Line R. R. tracks, Route No. 6, near Parker's Ferry, Palmer Construction Co., Florence, \$16,311.

In Lancaster County—7 mi. surfacing, Route No. 93, 1 mi. from Lancaster to North Carolina line, Hawkins & McDonald, McBee, \$7195; Lexington County—11.7 mi. Route No. 121, New Brookland to Edmund, W. J. Bryan Paving Co., Jacksonville, Fla., \$63,554; treated timber bridge, six 15-ft. spans, W. B. Boyle Co.; Newberry County—3.2 mi. earth, Route No. 2, Langford & Wicker, Newberry, \$12,092; Marion County—3.8 mi. grading, Route No. 3, A. S. Barron, Timmonsville, \$27,833; Oconee County—57 mi. Route No. 2, approaches to overhead bridge, L. C. Ashmore & Sons, Greenville, \$23,800; treated timber and structural steel bridge over Southern tracks, near Courtney, Palmer Construction Co., \$11,926; Pickens County—treated timber and structural steel overhead bridge near Libbert, Route No. 2, Lathan Brothers, Lancaster, \$11,559; Spartanburg County—overhead bridge over Southern tracks, near Duncan, Palmer Construction Co., Florence, \$11,845.*

South Carolina—State Highway Dept., Columbia, plans 8 roads and bridge, totaling 135 mi. hard-surfaced roads: State Highway No. 2, New Brookland to Calhoun County line; from Route No. 2 south of Dixiana through Swansea; Route 12, Columbia to Aiken County line, through New Brookland, Lexington, Batesburg and Beesville; Route No. 39, Ward to Leesville, through Ridge Springs and Hibernia; from Batesburg to Greenwood County line, through Saluda; Monticello road, to Fairfield County line; Route No. 3, between Columbia and Sumter, and end of present paving in Richland County to Wateree Bridge; Route 2, White Rock to Chapin; permanent bridge to replace temporary wooden structure over Broad River; Ben M. Sawyer, Ch. Highway Commr.

S. C., Charleston—Charleston County Sanitary and Drainage Comm., receives bids May 5 for 2¼ mi. Meggett-Yonges Island road, St. Paul Parish; 15,235 cu. yd. excavation; plans on file; E. D. Jervey, Engr.

S. C., Leesville—Town considering paving main business street. Address The Mayor.

Tenn., Kingsport—City, Frank L. Cloud, Mgr., will pave streets and lay sidewalks in Dists. Nos. 34 and 39.

Tenn., Lebanon—City considering paving 4 streets, including Main, North Cumberland. Address City Clk.

Tenn., Loudon—Loudon County Court plans 2 highways: 7.2 mi. Dixie Highway from Knox to Roane County line; concrete road from Lenoir City to Monroe County line at Philadelphia, link of Lee Highway; cost \$480,000. Address County Commrs.

Tenn., Knoxville—City, Alexander Harris, Director of Public Service, received low bids from Murray Construction Co., Halston Natl. Bank Bldg., for 5000 sq. yds. concrete sidewalk; from G. W. Ferris, 20,000 lin. ft. concrete curb and gutter.*

Tenn., Mountain City—Dept. of Highways and Public Works, C. H. Bass, Ch. Highway Commr., Nashville, plans Mountain City-Johnson City Highway.

Tex., Albany—Shackelford County, Richard Diess, County Judge, receives bids May 10 for 14.67 mi. two course bituminous surface treatment on existing base, Highway No. 23; 150,000 gallons asphalt, 10,000 cu. yd. stone; estimated cost \$60,000; plans from State Highway Dept., Austin, and Jas. E. Pirie, County Engr.*

Tex., Anahuac—Chambers County plans shelling Anahuac-Winnie-Stovell Road; cost \$700,000; improve other roads; cost \$24,000. Address County Commrs. See Financial News—Bond Issues Proposed.

Tex., Beaumont—City Comm., Ollie J. Bloyd, Mgr., receives bids soon to grade and shell road through Tyrrell Park.

Tex., Beaumont—Jefferson County Commrs., B. B. Johnson, County Judge, plan 4 roads and bridge: From Beaumont to beach; extend College Ave. to Amelia, to eliminate railroad crossing on Old Spanish Trail; Sour Lake road; Road Dist. No. 1; bridge across Neches River, on Port Arthur-Orange Highway, cost \$1,050,000. See Financial News—Bond Issues Proposed.

Tex., Corpus Christi—City, J. T. Wright, Sec., plans receiving bids to pave 5 streets.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Corsicana—Navarro County Comms. Court plans reinforced concrete cardinal and lateral highways in Consolidated Road Dist. No. 1. See Financial News—Bond Issues Proposed.

Tex., Cotulla—LaSalle County, G. A. Welhausen, County Judge, plans 2 roads: Highway No. 2; highway extending east and west across county; cost \$600,000. See Financial News—Bond Issues Proposed.

Tex., Crosbyton—Crosby County, J. M. Mabe, County Judge, received low bid from L. S. Miles, Fort Worth, at \$11,401 for .549 mi. grading and drainage structures, State Highway No. 53.*

Tex., Cuero—City, Walter Reiffert, Chmn. Finance Committee, plans completing 40-ft. paving on Reuss Blvd.

Tex., Electra—City plans receiving bids at once to widen West Cleveland Ave., 13½ ft. on each side of present pavement. Address City Clk.

Tex., Falfurrias—State Highway Comm., Austin, allotted \$75,000 toward concrete road in Brooks County, from Jim Wells-Brooks County line to about 13 mi. below Falfurrias; J. A. Brooks, County Judge.

Tex., Galveston—City plans paving, drainage, filling and permanent improvements on certain streets, cost \$200,000; C. A. Holt, City Engr. See Financial News—Bond Issues Proposed.

Tex., Goliad—Goliad County plans 3 hard surfaced roads, totaling 109 miles; cost \$1,250,000; J. A. White County Judge. See Financial News—Bond Issues Proposed.*

Tex., Groesbeck—Limestone County Commissioners Court, J. B. Watson, Jr., County Auditor, receive bids May 13 for certain lateral highways in Consolidated Road Dist. No. 4, Mexia Precinct; 5839 tons cold-rolled Uvalde limestone rock asphalt or Amiesite; plans from Nagle, Witt, Rollins & Gilchrist, Gen. and Const. Engrs., 1203 Allen Bldg., Dallas, and City Hall, Mexia.

Tex., Hebbroville—State Highway Comm., Austin, granted \$60,000 aid for 9 mi. asphalt surfacing Highway No. 12-A, Jim Hogg County; A. M. Brumfield, County Judge.

Tex., Houston—Harris County Comms., H. L. Washburn, Auditor, plans expending \$40,000 for shell shoulders on La Porte Road; Norman Atkinson, County Judge.

Tex., Houston—River Oaks Corp., Hugh Potter, Pres., plans extending 7 streets, including Del Monte, Inwood, in new section.

Tex., Houston—Harris County Comms. Court, H. L. Washburn, County Auditor, plan receiving bids for 3.1 mi. 20-foot concrete paving on Bellaire Blvd., from Main St. to Rice Ave., including 2½ mi. curbing; plans from County Engr.

Tex., Houston—City, O. F. Holcombe, Mayor, plans letting contract within 30 days to gravel streets; J. C. McVea, City Engr.

Tex., Jourdanton—Atascosa County, Earl D. Scott, County Judge, plans road building in Road Dist. No. 2; cost \$250,000; J. V. Cunette, County Engr. See Financial News—Bond Issues Proposed.

Tex., Linden—Cass County, R. H. Harvey, County Judge, plans 23 mi. sledged stone base, 2½-in. asphalt topping, from Marion County line through Cass County to Douglassville.

Tex., Linden—Cass County, R. H. Harvey, County Judge, plans 7.44 mi. 13-inch stone base, 1-inch asphalt top, Highway No. 8, from point near Frazier Creek to Linden, estimated cost \$122,500; Fred E. Hess, County Engr.

Tex., Merkel—City, N. D. Cobb, Mayor, plans paving; cost \$20,000. See Financial News—Bond Issues Proposed.*

Tex., Mission—City plans additional paving, cost \$30,000. Address City Clk. See Financial News—Bond Issues Proposed.

Tex., Panhandle—Carson County Comms. Court, Judge Callaghan, plans receiving bids for 2 roads: Federal Project No. 33, across county from Francis to point near Kingsmill; Federal Project No. 75, paralleling Rock Island R. R. in southern part of county.

Tex., Rusk—Cherokee County plans completing and hard-surfacing Dixie Highway through county, connecting with paved roads at Cherokee, Angelina and Smith Counties lines; also connect with Houston-Shreveport Airline at Lufkin. Address County Comms.

Tex., San Angelo—City Comm., E. V. Spence, Mgr. plans street paving, cost \$1,420,000. See Financial News—Bond Issues Proposed.*

Tex., San Antonio—City, John W. Tobin, Mayor, receives bids May 2 for paving 21 blocks streets, with hard base, asphalt topping, approximate cost \$35,000; plans receiving

bids in May for hard base and asphalt top on 3 streets; I. Ewig, City Engr.

Tex., Wichita Falls—City, W. E. McBroom, Clk., plans paving 5 streets, including Bluff, Twenty-first.

Tex., Wichita Falls—Wichita County plans 9 roads, 4 underpasses and bridge, totaling 57.9 mi.; 18.4 mi. gravel asphalt from end of paving on Seymour Road to southwest of county; 2 mi. concrete from end of Seymour concrete road to connect with Archer County road, then on to Seymour; 13 mi. asphalt surface from Iowa Park to intersect Road No. 1 to Diversen Lake; 4 underpasses north of Wichita River, connecting with Iowa Park Road, Burk Burnett Road and east of city under Missouri-Kansas-Texas and Fort Worth and Denver Roads, near Ray Sheet Metal Works; Scott Ave. Bridge; 1½ mi. gravel asphalt, Petrolia connection; 4.3 mi. Old Windthorst Road to Archer County line; 3.2 mi. gravel asphalt, Holiday St. to Archer County line; 7.5 mi. gravel asphalt from end of paving on Tenth St., over Floral Heights Bridge to gravel road from Iowa Park to experiment farm north of Wichita River; 7½ mi. gravel asphalt, Fourth St., over new bridge, through valley to Clay County line; cost \$1,000,000; E. W. Nicholson, County Judge. See Financial News—Bond Issues Proposed.

Va., Chatham—State Highway Comm., H. G. Shirley, Chmn., Richmond, plans oil treating portion of Route No. 14, between Chatham and Altavista.

Virginia—See Bridges, Culverts, Viaducts.

Va., Chatham—State Highway Comm., H. G. Shirley, Chmn., Richmond, plans 40 mi. hard-surfacing Piedmont Highway, north of Gretna and south of Lynchburg; also 50 mi. oiling; cost about \$700,000; C. S. Mullen, Ch. Engr.

Va., Danville—City receives bids May 3 for 6000 cu. yd. excavation, 3300 sq. yd. asphaltic concrete on 6-in. concrete base, 380 sq. yd. 1-2-4 concrete sidewalk, 1000 lin. ft. 30-in. combination curb and gutter, 900 lin. ft. 8-in. sanitary sewers; plans from C. L. Scott, Jr., City Engr., 313 Masonic Temple Bldg.

Va., Lexington—State Highway Comm., H. G. Shirley, Chmn., Richmond, plans about 25 mi. surface-treating or oiling State Highway No. 14, Natural Bridge through Lynchburg and Danville, to North Carolina line; from Shannon to Sycamore, and from point north of Altavista to connect with macadam south of Lynchburg; also about 5 mi. hard-surface road; C. S. Mullen, Ch. Engr.

Va., Petersburg—City, Dr. W. F. Drewry, Mgr., plans widening street 5 ft. to Walnut Hill viaduct.

Va., Richmond—City, R. Keith Compton, Director of Public Works, receives bids May 5 to pave with asphalt Grove Ave., Berrington to West Corporation line; asphalt surface Chamberlayne Ave., Wickham Ave., to Brookland Park Blvd.; plans on file.

W. Va., Huntington—Cabell County Comms. plan grading and draining 9 roads and bridge in Barboursville Dist.: 16-ft. hard-surfacing 4 mi. Merritts Creek and Little Seven Mile road, from east end of Barboursville Bridge to Ohio River paved road; also Little Seven Mile bridge 3 mi. 16-ft. hard-surfacing, Pea Ridge and Davis Creek road, Pea Ridge Road to Sixteenth Street road; 5 mi. Seven Mile road, from Mill Branch to Huntington-Charleston road at Blue Sulphur; 1½ mi. 14-ft. hard-surfacing, Cyrus Creek road, from Huntington-Charleston paved road; 1½ mi. 14-ft. hard-surfacing, Hughes Branch road, from Huntington to Hamlin road; 1 mi. 14-ft. hard-surfacing, Long Branch road; 1 mi. 14-ft. hard-surfacing, Camp Branch of Long Branch road; 1½ mi. Long Branch road to Doss Hill; 1 mi. road from Pea Ridge and Davis Creek road, from point near mouth of Davis Creek to Borton's Creek schoolhouse; cost \$275,000; R. S. Douthat, Clk. See Financial News—Bond Issues Proposed.

W. Va., Huntington—City Comms. Homer L. Yelch, Commr. of Streets and Sewers, receives bids May 9 to grade, curb and pave Artisan and Twelfth Aves.; plans from A. B. Maupin, City Engr.

W. Va., Huntington—City Comm., plans paving Fifth Ave. from Twenty-second St. to Main St., Guyandotte; A. B. Maupin, City Engr.

W. Va., Huntington—City Comms., H. H. Fielder, Clk., receives bids May 2 to grade, curb and pave Eastwood Ave. and Beach St.; plans on file and from A. B. Maupin, City Engr.

W. Va., Princeton—Mercer County Court receives bids May 9 for road on Island Creek, connecting Haldren and Hill Top

road at Petty; 1800 cu. yd. excavation; plans from County Road Engr.

W. Va., Spencer—Roane County plans road building in Geary Dist., including road from Newton to connect with Spencer-Clay Road, under construction; cost \$175,000. Address County Comms. See Financial News—Bond Issues Proposed.

Contracts Awarded

Ala., Birmingham—City Comm., Eunice Hewes, Clk., let contract at \$170,350 to pave 16 streets: Dunn Construction Co., Southern Roads Co., 104 N. 17th St.; H. N. Bowdry, Ala. Power Bldg.; J. L. Goddard; Morgan-Hill Paving Co., Woodward Bldg.; Fromhold Brothers; J. L. McPoland, 1108 Louise St. S.

Ala., Gadsden—Town let contract to Chas. O. Duncan at \$25,131 for concrete sidewalks, curbing and gutters in vicinity of yarn mill in Owl Valley and East Gadsden.*

Fla., DeLand—Volusia County Comms., Saml. D. Jordan, Clk., let contract to F. W. Simpson, New Smyrna, at \$110,000 to complete 3 roads in Turnbull Special Road and Bridge Dist.: North Orange St., Canal to State Road paving; Magnolia St. to South Canal; completing New Smyrna-DeLand road, with top dressing of tarvia and slag.

Fla., Inverness—Florida West Coast Development Co. let contract to John Larue for 3 mi. semi-hard surface road to Rendezvous, being extension of Grover Cleveland Blvd. from Atlantic Coast Line R. R. right-of-way, also 2 bridges over Hall's River and Peterson's Creek.

Fla., Palatka—Putnam County Bond Trustees, Special Road and Bridge Dist. No. 7, let contract to T. B. Gillespie, for 4½-mile limerock base, slag and asphalt double surface treatment, State Road No. 3, from Rivercrest to Yelvington.

Fla., Stuart—John W. Rollins Construction Co., has contract at \$67,000, for 5 mi. 16-ft. sub-grade, Ocala rock base, slag top, Warfield Highway, Martin County.*

Fla., St. Augustine—St. Johns County Comms., O. P. Goode, Clk., let contract to C. R. Cummings Co., City Bldg., St. Augustine, at \$122,289, for about 12 mi. road between Julington Creek and Orangedale, State Highway No. 47.

Fla., Tampa—City Comm., Wm. E. Duncan, Clk., let contracts at \$15,750 to pave 2 streets: Cone Brothers, for asphalt block on 6-in. shell base on Fortune St.; approach, Tampa to bridge; Harwell Brothers, 3-in. brick surface, shell base, west approach to bridge on La Salle St.

La. Benton—Police Jury of Consolidated Road Dist., Bossier Parish, let contract to Alexandria Contracting Co., Alexandria, at \$131,447 for 26 mi. gravel road, Benton to Haughton, via Belleview and Princeton.*

La., Monroe—Meyer & Greenwald Construction Co., Ouachita Bank Bldg., has contract for reinforced paving on Paragould Drive, sub-division, west of Lover's Lane; Theodore F. Terzia, owner of sub-division.

La., Pineville—Board of Aldermen let contract to B. J. Carbo for sidewalks on College, Hardtner, Ball, Singer and Main St.

Miss., Bay St. Louis—Mayor and Board of Aldermen let contract to W. D. Hays at \$15,780 for cement sidewalks.

Miss., Meridian—A. P. Pool & Son, A St. and 24th Ave., Meridian, has contract for sidewalks, sidewalk curbing and guttering, and grading and gravel paving in Oak Park sub-division.

Miss., Meridian—Meridian Realty Co. let contract to Wright Construction Co., 3001 Fifth St., for about 1 mi. cement sidewalks, curbs and gutters in Northwood subdivision.

Miss., Port Gibson—Claiborne County Board of Supvrs. let contract for 2 sections totaling 18 mi. road between Port Gibson and Rodney; 10 mi. Port Gibson to Windsor, Clark & McCaa, Port Gibson, \$30,131; 8 mi. Windsor to county line, F. D. Harvey, Jonesboro, La., \$31,661.*

Miss., Vicksburg—City, W. J. Hossley, Mayor, let contract to V. T. Zillinger, at \$14,100 for ½ mile 30-ft. limestone rock asphalt paving, and at \$10,000 for sewers on National St.*

Mo., Kansas City—Gray Paving and Material Co., 1927 Vine St., has contract to pave Warwick Blvd., Armour Blvd. to Forty-Third St.

Mo., Springfield—City, S. R. Fisher, Engr., let contract to Stigall Construction Co., Benton and Talmage St., to pave Brower St.; H. Proserpi, 1220 Campbell Ave., to pave Patton Alley; Ralph W. Langston, R. F. D. No. 3, for sidewalks.

Mo., Sullivan—City, N. W. Shaffer, Clk.,

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let contract to H. H. Graham, to grade and gravel 18-ft. wide James St. and Maple Ave.

Okla., Oklahoma City—City, M. Peshek, Jr., Clk., let contract to M. A. Swatek, 519½ W. Main St., \$16,377, to pave Eubanks St., Shartel to Western.

Okla., Sallisaw—State Highway Comn., Oklahoma, let contract to Altman Rodgers Co., to straighten Sallisaw-Muldrow section of Highway No. 64, from Fort Smith to Muskogee; Gooldy, Epperson & Pryor, for 3 bridges on same section.

Okla., Seminole—City let contract to Ward-Beekman & Brooks, Inc., 1301 E. 9th St., Oklahoma City, at \$56,676, for 12,700 sq. yd. brick paving in Dist. No. 5.

Tenn., Knoxville—City, Alexander Harris, Director of Public Service, let contract to G. W. Ferris for about 5000 sq. yd. sidewalks.

Tenn., Lebanon—Boyd Williams Co., Murfreesboro, has contract at \$11,974 to pave public square with 1½-in. Kentucky rock asphalt with sufficient macadam base to meet all specifications.

Tex., Amarillo—City, Jeff D. Bartlett, Mgr., let contract to Willmering & Mullen, 96 Polk St., at \$108,000 for brick street paving in Wolflin Estates.

Tex., Wichita Falls—Bert King, owner, let contract to L. E. Whitham, 1901 Austin St., at about \$50,000 to pave streets in Rivercrest Park addition.

Tex., Wichita Falls—City, W. E. McBroom, Clk., let contract to West Texas Construction Co., 504 Cotton Exchange Bldg., Fort Worth, to pave Holliday St., Seventh to Eighth.

W. Va., Huntington—Cabell County Comms., let contract to H. E. Denny, to gravel top, 2 mi. West 18th Ave. Extension, in Heights, to connect with Hempstead road.

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Abbeville—O. H. Lang, Moultrie, Ga., Const. Engrs., reported, prepare plans and specifications for sanitary sewerage system and street and sidewalk paving.

Ala., Birmingham—City, Eunice Hewes, Clk., reported, plans sewers on Seventh St. and Rugby Ave.

Ala., Birmingham—City, A. J. Hawkins, City Engr., receives bids May 24 for sewers in Graymont Section. See Want Section—Sewers.

Ala., Birmingham—See Roads, Streets, Paving.

Ala., Mobile—E. L. Guest, Savannah, Ga., reported, low bidder for division B of storm sewers.*

Ga., Atlanta—Sewer Committee, reported, authorized installation of lateral sewers.

La., New Orleans—City, Arthur O'Keefe, Mayor, reported, expend \$500,000 to purchase relief equipment for sewerage and water board's power plant.

La., Winnfield—See Water Works.

Md., Baltimore—See Miscellaneous Construction.

Md., Baltimore—Board of Awards receives bids May 4 for sanitary and storm sewers. See Want Section—Bids Asked.

Md., Baltimore—F. Angelozzi, 238 Albe-marle St., has contract at \$155,889 for drains and sanitary sewers in Dists. C-11 and C-13, Storm Water Contr. 100.

Md., Baltimore—Natale Martell, 4400 Vesta Ave., has contract at \$48,621 for extension of storm and sanitary sewer, Storm Water Contract No. 104; Milton J. Ruark, Sewerage Engr., 311 Courtland St.*

Md., Cumberland—City, reported, acquired 30 acres land in Humbird Bottom for sewage disposal plant. Address The Mayor.

Miss., Kosciusko—City votes May 2 on \$90,000 bonds for installing sanitary sewers. Address The Mayor.

Miss., Meridian—R. T. Myers Construction Co. has contract for extending sanitary sewers.

Miss., Vicksburg—See Roads, Streets, Paving.

Mo., Ferguson—City, Wm. Stoecker, 317 E. Lockwood St., Webster Groves, Engr., reported, formed Lamay Ferry & Jennings Sewer Dist., construct sewers, cost \$800,000.

Mo., Springfield—Ralph McSweeney and Easley Bros., reported, have contract for sewers in District 28 of Section 3.

Mo., St. Louis—Board of Public Service, reported, received following low bids for sewers: R. J. Blackburn, 7308 Lyndover Place, for first and second section of joint district sewer and branches within Wherry Ave. sewer district; Frank A. Stiers, Garrison and Magazine Sts., for Loughborough Ave. joint sewer district.

Mo., University City—City, E. B. Colby, Clk., reported, plans sewer in Shaftsbury Heights Subdivision.

Okla., Blackwell—City, M. M. Lively, Mayor, plans voting on bonds for sewer outlet for Ikard, Vinnedge, Enlow, South Park and Harrison Additions. See Financial News—Bond Issues Proposed.

Okla., Edmond—City, reported, plans sewer extension; cost \$35,000. Address The Mayor.

S. C., Ninety-Six—Tucker & Laxton, Realty Bldg., Charlotte, N. C., reported, has contract for sewer lines in mill village, cost \$50,000.

Tenn., Kingsport—Citizens Supply Corp. and Porch Brothers Lumber Co., reported, have contract for sewer pipe and cement, for work in Improvement District 24 to 39; will soon let contract for sand, stone, manholes, catch basins and curbing materials.

Tex., Amarillo—Clowe & Cowan, 401 Harrison St., reported, has contract for laying sewer pipe.

Tex., Amarillo—Gordon Construction Co., reported, has contract for sewers in Wolflin Estates.

Tex., Fort Worth—Ellsworth Long, 1828 Tremont St., reported, has contract for storm sewers.

Tex., Houston—City, O. F. Holcombe, Mayor, receives bids May 2 for sanitary sewers. See Want Section—Bids Asked.

Tex., Houston—City, O. F. Holcombe, Mayor, reported, soon begin work on addition to North Side sewage disposal plant; \$200,000 available; plans by city engineering department; soon call for bids; J. O. McVea, City Engr.*

Tex., Mission—City considering bond issue for sewers. See Financial News—Bond Issues Proposed.

Tex., Pelly, Branch Goose Creek—City votes May 14 on \$35,000 bonds for constructing sewerage system.*

Tex., San Angelo—City plans sewer extensions. See Financial News—Bond Issues Proposed.

Tex., Wichita Falls—City, W. E. McBroom, Clk., will receive bids for storm sewers on various streets.

Va., Danville—See Roads, Streets, Paving.

W. Va., Fairmont—City, reported engaged Fuller & McClintock, 170 Broadway, New York, Engrs., to plan, supervise and construct water and sewer lines; bids opened May 4.

Telephone Systems

Ala., Millport—D. M. Brazil, local Mgr. of Standard Oil Co., reported, purchased Millport Telephone Co. from M. Brotherton, Fayette; will operate.

Fla., Polk City—Peninsular Telephone Co., Tampa, has permit to install and operate telephone system.

Mo., Cape Girardeau—Cape Girardeau Telephone Co., Henry L. Rozier, Pres., acquired property of Lead Belt Telephone Co., including exchanges at Flat River, Farmington and Bonne Terre; all operated as Cape Girardeau Telephone Co.

Mo., Joplin—Southwestern Bell Telephone Co., W. O. Randall, Dist. Mgr., plans expending about \$26,000 for switchboard equipment, etc.

N. C., Charlotte—Southern Bell Telephone & Telegraph Co., E. Third St., main office Atlanta, Ga., reported, acquired 99x195-ft. site, 206 N. Caldwell St., probably erect central exchange building.

Textile Mills

Ark., Little Rock—Little Rock Textile Co., capital \$50,000, incorporated; C. V. Hoke, Pres., 2124 E. Sixth St., reported, has site of 500 acres, erect plant for manufacture twine, ropes and mops; install 1500 spindles.*

Ga., Winder—Interests associated with Amoskeag Mfg. Co., Fitchburg, Mass., reported, acquired Barrow County Cotton Mills, Winder and Lawrenceville; plans enlarging for manufacture of gingham and denims.

N. C., Hickory—Ivey Mills, manufacturers

of cotton pongees, are installing 8 combers made by Whitin Machine Co., Whitinsville, Mass.

N. C., Statesville—Iredell Development Co., \$30,000 capital; incorporated by L. W. MacKesson, J. B. Roach, to erect building for the Phoenix Mills, Inc., of Little Falls, N. Y., to cost \$200,000; two buildings, first one to have 100,000 sq. ft. floor space, other 50,000 sq. ft.; ground will probably be broken on 10-acre tract within ten days, completed before Sept. 1; will remove woolen mill from Little Falls; work under direction of Lockwood, Greene & Co., Engrs., Johnston Bldg., Charlotte; Grier Lawrence Construction Co., Statesville, L. B. Bristol, Pres., Contrs.*

S. C., Columbia—Mount Vernon Woodberry Mills, Inc., will replace old machinery with new this year at Columbia Mills. Wire from Columbia Mills follows: "Thirty-four years' operation requires replacing of equipment, tending to give more economical operation and better balance in departmental capacities; equipment includes entire new spinning 74 cards also picking, slubber and twisting machinery; manufacturers furnishing equipment are Saco Lowell Shops, Federal St., Boston, Mass.; Whitin Machine Works, Bannockburn, Ill.; and others."

S. C., Union—Unionwear Corp., capital \$60,000, incorporated; H. M. Arthur, Union; S. M. Edelstein, Union.

Tex., Paris—Chamber of Commerce, reported, negotiating for establishment of cotton mill with 50,000 spindle equipment; Chamber of Commerce wires: "Mill contemplated at present but no definite information now."

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Fla., Boynton—City voted \$75,000 bonds for water works extension. See Financial News—Bond Issues Proposed.

Fla., Tampa—Water Committee, reported, planning water mains extension, cost \$200,000.

Ky., Augusta—City Council, reported, accepted tentative contract from Asire & Moore, Inc., South Bend, Ind., for water-works construction, including 50,000-gal. steel tank and 100-ft. deep well; cost \$40,500.*

La., Many—Swanson-McGraw, Inc., Balter Bldg., New Orleans, reported, have plans ready for bids in about 2 weeks for \$50,000 water-works system; A. S. Gibson, Resident Engr.*

La., St. Martinsville—City, P. H. Fleming, Mayor, plans \$60,000 water works improvements, including new system of cast iron mains; 1660 ft. of 8-in., 200 ft. of 6-in. and 17,514 ft. of 6-in. Class B cast iron pipe; filtration plant of 250,000 gal. daily capacity, 50,000 gal. steel tower, tank on 100-ft. tower, 150 G. P. M. centrifugal service pump; one 500 G. P. M. centrifugal underwriters fire pump; 60 h. p. motor; Louis J. Voorhies, Const. Engr.; date of opening bids not decided.*

La., Winfield—Dr. P. J. Bumgardner, Mayor, reported, soon call for bids for sewerage and water-works construction; Chas. D. Evans, Const. Engr., Levy Bldg., Shreveport.*

Md., Annapolis—City, Allen Bowie Howard, Mayor, votes May 18 on \$250,000 water improvement bonds.

Miss., Biloxi—City, receives bids May 9 for constructing 300,000-gal. reservoir. See Want Section—Bids Asked.

N. C., Wilmington—City and Oliver T. Wallace, 108 Princess St., developer of Brookwood, will extend water mains into Brookwood Ave.

S. C., Woodruff—City, reported, plans additional water supply; C. G. Hubbel, of Charlotte, N. C., Const. Engrs.

Tenn., Waverly—City votes May 11 on purchasing plant or installing new one. Address The Mayor.*

Tex., Brownsville—City, reported, let contract to Kirkwood, Wharton & Lee, 456 Main St., San Antonio, for water mains.

Tex., Cuero—City plans installing water tower. See Financial News—Bond Issues Proposed.

Tex., Fort Worth—City reported, rejected bids for tank and tower, call for new bids; D. L. Lewis, City Engr.*

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Houston—Layne-Texas Co., 6931 Harrisburg Blvd., has contract for drilling 3 wells at depth of 1600 ft. each, cased from surface to depth of 250 ft. with 24-in. I. D. casing, from 250 ft. depth each well will be cased with 12-in. line pipe and 12-in. Layne strainer; each well equipped with a 3,000,000 gal. Layne deep well turbine centrifugal pump driven by General Electric vertical, 2300 volt, 1200 RPM motors; also has contract for erecting pump houses and pipe lines to connect with city's new 15,000,000 gal. concrete reservoir; all work by company.

Tex., New Boston—City voted water-works bonds; J. H. Dalby, Mayor.*

Tex., Nocona—Joe B. Winslett, Merchants Bank Bldg., Dallas, reported, has contract at \$21,068 for water works; Jos. Rady, Const. Engrs., Clarendon.

Va., Norton—The J. N. Chester Engineers, Union Bank Bldg., Pittsburgh, Pa., reported, employed as engineers to survey for water-works reservoir.

W. Va., Mannington — City, F. A. Burt, Mayor, votes May 2 on \$100,000 water works bonds.*

Woodworking Plants

Ga., Cuthbert—Handles—E. S. Wittel & Son, Shortley, Ala., establishing plant to manufacture broom and axe handles, soon begin erecting plant; acquired site on G. F. and A. Railroad; purchased tract of timber suitable for making of handles; also contemplates establishing branch broom factory.

La., Haynesville—Home Furniture Co., Inc., capital \$30,000, chartered; J. C. McEarchen, Pres.; W. E. Graham, Sec.

Miss., Yazoo City — Boxes — Delta View Cheese Factory installed machinery to manufacture own packing boxes.

Tenn., Memphis—Grismore-Hyman Cooperage and Lumber Co., capital \$100,000, incorporated; F. Grismore, W. W. Hyman, O. L. Caton, 1001 Forrest St.

Tex., El Paso—El Paso Sash and Door Co., 2200 Mills St., increased capital, \$500,000 to \$600,000.

Tex., Marshall—Marshall Wood Products Co., Inc., capital \$50,000, N. P. Turner, Pres.; Wm. Gaylord, Mgr.; will erect plant; begin construction immediately.

Va., Madison—Furniture—E. A. Close & Son will erect 1½-story, 52x65-ft. and 12x48-ft. buildings, wood, hardwood floors, galvanized roof, construction by owner, install rebuilt machinery including single surfacer, back knife lathe, floor swing saw table, jointer, hand lathes, hand drill press and combination wood worker. See Wants Section—Machinery and Supplies.

Va., Roanoke—L. O. Moser, Main St., reported, erect factory to manufacture antique furniture; acquired site on Fifth St., between Court and Clay Sts.

Va., Roanoke—Sub-contracts for Johnson-Carper Furniture Co. are as follows: Steel, Virginia Bridge and Iron Co.; sash and doors, C. Grady Cates; painting, Lubbrook Paint Co.; excavating, J. R. Vaughn & Co., 1100 Maiden Lane, all Roanoke; elevators, Salem Foundry & Machine Works, Salem, Va.; T. J. Davis Building Construction Co., Inc., Gen. Contr., Virginia Heights, Roanoke.*

FIRE DAMAGE

Ala., Anniston—Residences of Carl Roberts, H St. and Quintard Ave., and R. B. Mickie, J St. and Leighton Ave.

Ala., Mobile—F. A. Tachior's residence, Halls-Mills Rd.

D. C., Washington—Cook and District Waste Paper Co.'s warehouse, 71 Q St., N. W.

Fla., Avon Park—Mrs. Lillian Stephenson's residence near Avon Park.

Fla., Inverness—Dwelling on W. E. Heron's farm, occupied by Sam Rountree, County Agricultural Agt.

Fla., Miami—Geo. Taylor's residence, N. W. 11th St. and 31st Ave.; loss \$7000.

Fla., Ojus — Eight-room school building; loss \$6000; address Dade County Board of Public Instruction, Miami.

Fla., Tarrytown—Mississippi Cypress Lumber Co.'s plant.

Ga., Columbus—Electric City Lumber Co.'s plant; loss \$15,000.

Ga., Savannah—Mickve Israel synagogue, Gull and Gordon Sts., on which \$40,000 repairs were in progress.

Ky., Hickman—Department store and office building owned by F. M. Nalfv; loss \$50,000.

La., Waterproof—Marks Mercantile Co. and other buildings; loss \$50,000.

Md., Berlin—McDonald Hotel at McDonaldton, near Berlin; loss \$30,000.

Miss., Meridian—Laurel Packing Co.'s ice plant; Eastman-Gardiner & Co.'s plant known as the "Little Mill"; loss \$100,000.

Miss., Okolona—Harris Hotel. Address The Proprietor.

Miss., Waynesboro—J. B. Dickerson's cotton gin on Court St.; loss \$12,000.

Miss., Yazoo City—Mrs. Mamie Broadway's residence; loss \$6000.

Mo., Joplin—Portion of plant of Rothschild Iron and Metal Co., Seventh St. and Missouri Ave.

Mo., Springfield — Bridge over Turkey Creek at Hollister; 115-ft. approach to White River Bridge at Branson; 240-ft. bridge on Highway No. 45 over White River, near Reeds Spring, in Stone County; White River Bridge on State Highway No. 76, at Forsyth, Address T. H. Cutler, State Highway Dept., Jefferson City.

Mo., St. Louis—N. Jost Cork and Bottle Supply Co.'s building, 107 Elm St.; loss \$40,000.

Okla., Allen—Power and water plant of East Oklahoma Light and Power Co.; loss \$15,000.

S. C. Anderson—Brown Bldg. and Towns- end Bldg.; loss \$20,000.

S. C., Johnston—People's Cotton Oil Co.'s plant; loss \$35,000.

S. C., Orangeburg—Louis Building; loss \$75,000.

Tex., Edna—Edna Mattress Factory; Ber-ryhill blacksmith shop.

Tex., Floydada—Lewis Davis' cotton gin.

Tex., Fort Worth—Humble Oil and Refin- ing Co.'s warehouse, N. Houston St.; loss \$12,000.

Tex., Franklin—Warehouse of A. G. Scott & Co.

Tex., Houston—Oil storage depot of Con- solidated Oil Co., 2905 McKinney St.

Tex., Marble Falls—W. E. McCoy's variety store, Main St.; loss \$80,000.

Tex., Robert Lee—Residences of Albert Pruitt, editor Robert Lee Observer, and Mrs. Mary Brumley; Christian church, ad- dress The Pastor.

Va., Buena Vista—Columbian Paper Co.'s plant; loss \$50,000.

Va., Millwood—Clay Hill Academy, near Millwood.

Va., Norfolk—W. E. Thomas Marine Rail- way Co.'s lumber yard, two residences and portion of plant of Berkley Machine Works and Foundry Co.; loss \$30,000.

Va., Raphine—McCormick Bldg.; loss \$10,- 000.

Va., Sontag—Beulah Law's residence.

W. Va., Huntington—Building at 1033 Third Ave. occupied by Five and Ten Cent Store, owned by A. H. Frankel; loss \$25,000.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

D. C., Washington—Salvation Army, im- prove fresh air camp, Happyland, Patuxent, Md.; erect 3 buildings; cost \$10,000.

Miss., Quitman—Ancient Free and Accepted Masons plan \$10,000 temple; brick, 1 story and basement, 33x62 ft., wood floors, built-up roof, steam heat; P. J. Krouse, Archt., M. & W. Bldg., Meridian.

Mo., Bonne Terre—Samaritan Lodge soon call for bids on revised plans building; brick and reinforced concrete, terra cotta trim, 2 stories and basement, 80x45 ft., concrete founda- tion, composition roof, tile, cost \$30,000; auditorium; Nolte & Nauman, Archts., 614 Fullerton Bldg., St. Louis; soon call for bids.*

Mo., Kansas City—Westport Lodge No. 577, I. O. O. F., H. Stanley Hill, member, Bldg. Comm., plans building, 810-12 Westport Ave.; Robert F. Gornall, Archt., 3619 Broadway; work start in few days.

N. C., Asheville—Ancient Arabic Order, Nobles of Mystic Shrine, plan building.

N. C., Rocky Mount—Corinthian and Queen City Lodges, A. F. & A. M., T. L. Simmons, Chmn. Bldg. Comm., erect \$75,000 temple; semi-fireproof, 4 stories, 50x100 ft., concrete and wood floors, concrete foundation, gravel roof; furnishings, equipment, etc., \$25,000; H. Robt. Diehl, Archt. See Want Section—Building Materials and Equipment.*

Okla., Bethany—Young Men's Christian Assn., Oklahoma City, plans lodge at camp; construct lake; plans by J. O. Parr, care Hawk & Parr, Archts., Cotton Exchange Bldg., Oklahoma City.

Okla., Enid—Salvation Army erect \$17,000 building.

Tex., Fort Worth—Benevolent Protective Order of Elks, W. Seventh and Lamar Sts., lease or purchase building for quarters or erect new structure.

Tenn., Knoxville—Central Labor Union con- siders building.

Tex., Houston—Young Men's Christian Assn., F. C. Fields, Gen. Sec., considers build- ing.

W. Va., Madison—Odell Lodge No. 115, A. F. & A. M., erect \$60,000 temple after plans by J. J. West, 926 Sixth Ave., Huntington; 3 stories, 50x90 ft., maple floors, concrete foundation, built-up roof; Sigfus Olafson and S. E. Bradley, Engrs., Madison; bids in.*

W. Va., Martinsburg—Martinsburg Lodge No. 778, B. P. O. E., reported plans \$75,000 building.

Bank and Office

Ala., Anniston—First National Bank, W. H. Weatherly, Pres., remodel building; ready for bids about May 1; vault; Wm. Leslie Welton, Archt., 1905 American Trust Bldg., Birmingham.

Ala., Birmingham—Southern Life & Health Insurance Co., 808 N. 21st St., ready for bids about May 1 for stone and reinforced con- crete office building; 4 stories, copper roof, steam heat, 1 elevator; Warren, Knight & Davis, Archts., Empire Bldg.

La., Plaquemine—Iberville Building and Loan Association remodel building, Main St., for quarters; add additional story.

Ala., Mobile—Alabama Docks Comn., Gen. Wm. L. Sibert, Pres., plans 2-story concrete office building; probably 40x100 ft. or larger.

La., Shreveport—Benson Realty Co., Jos. Benson, 502 Atkins St., member, probably soon have plans ready for bids on 12-story Medical Arts Bldg., Travis and Louisiana Sts.; cost \$1,000,000, reinforced concrete and steel, 133.6x150x48 ft., basement section for parking space; Lang & Wittich, Archts., Amer. Exchange Bank Bldg., Dallas, Texas.*

Okla., Blackwell—Carl and Joe Kennedy, members Kennedy Mercantile Co., and Vern Hays of Hays & Son Lumber Co., erect fire- proof office building, Main and Bridge Sts.; 5 stories, 50x140 ft., first story white stone, face brick above, white stone cornice, ele- vators; 180 rooms; stores on first floor; H. H. Mahlor, Archt., 204½ E. Third St., Tulsa.

S. C., Anderson—J. Dexter Brown, owner Brown Bldg., repair building noted damaged by fire.

Tex., Archer City—People's Exchange Bank, P. J. Hays, Cashier, remodel building; new fixtures, plate glass front.

Tex., San Antonio—Southern Union Life Insurance Co., Tom Poynor, Vice-Pres., F. & M. Bank Bldg., plans fireproof office building; stone, steel and reinforced concrete; may be two years before ready for construction.

Tex., Wichita Falls—Wiley Wyatt, 1303 Polk St., erect office building.

W. Va., Morgantown—A. J. Garlow, Pres. Second National Bank, rebuild burned struc- ture.

Churches

Ala., Avondale, Birmingham—Avondale Methodist Church, Rev. John Lewis Jenkins, Asso. Pastor, plans building; raising funds.

Ala., Birmingham — Norwood Methodist

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Church, C. C. Blackwell, Chmn., Bd. of Stewards, plans \$100,000 Sunday school, 31st St.; probably 3 stories, with auditorium on first, classrooms on second and gymnasium on third.

Ark., Little Rock—Central Christian Church, Third and Cross St., E. O. Bagley, Chmn., Bldg. Comm., 3800 Hill Rd., erect addition; Jack Wiggins, Archt., Home Ins. Bldg.

Fla., Jacksonville—Trinity Lutheran Church probably have completed plans and start work in May on \$200,000 building, McDuff Ave. and Lydia St.; modified Gothic type, buff brick walls, stone trim, carved wood panel interior finish; \$75,000 two-story parish house, with auditorium, seating 250, as first unit; Mark & Sheftall, Archts., Clark Bldg.*

Fla., Sarasota—Methodist Church, Rev. A. E. Barnett, Pastor, has completed plans for Mabel Ringling Memorial recreational hall.*

Fla., West Palm Beach—Baptist Church, 333 Southern Blvd., plans building. Address The Pastor.

La., Harahan—Baptist Church plans building, Second St. Address The Pastor.

La., Monroe—First Methodist Church, B. B. Handy, Chmn., Bldg. Comm., plans building.

La., New Orleans—Temple Sinai Congregation, Jacob Bloom, Chmn., Bldg. Comm., receives bids May 19 for rein. concrete, brick, terra cotta and steel synagogue, St. Charles Ave. and Calhoun St.; cost \$250,000, east and limestone trim, pile foundation, composition and copper roof, bronze and iron work, tile work, marble, waterproofing, glazing, vault door, paving and drainage; Emile Weil, Inc., Hibernia Bank Bldg.; Moise H. Goldstein, Hibernia Bldg., and Weiss, Dreyfous & Selferth, Maison Blanche Bldg., Asso. Archts.; plans from office Emile Weil, Inc.*

La., Thibodaux—First Presbyterian Church receives bids May 4 for brick building; east stone trim, 1 story, tile roof, cost about \$10,000; plans and specifications from W. W. Van Meter, Archt., Balter Bldg., New Orleans.*

Md., Ellicott City—Emory M. E. Church, Rev. Edw. N. Parrish, Pastor, having plans drawn by Mottu & White, 529 N. Charles St., Baltimore, for building; preliminary sketches completed in few days.

Md., Pikesville—St. Mark's-on-the-Hill P. E. Church, Benj. Huger Read, Chmn., Bldg. Comm., call bids in few weeks on English Gothic type building; cloister and tower later; Taylor & Fisher, Archts., Union Trust Bldg.

Miss., Grenada—Methodist Church, Rev. J. H. Holder, Pastor, plans \$100,000 building.

Miss., Hattiesburg—Broad Street M. E. Church, South, receives bids May 8 at office R. C. Springer, Archt., Rosenbaum Bldg., Meridian, for rein. concrete, brick and stone trim building; cost about \$50,000; asbestos shingle roof, 60x70 ft., hot-air heat, metal lath, wood floors, stained glass windows.*

Mo., Springfield—Campbell Street M. E. Church, South, F. T. Jared, Sec., 212 W. Commercial St., receives bids May 4 for auditorium with classrooms; plans and specifications from Geo. F. Reed, Archt., Woodruff Bldg.

Mo., St. Louis—Water Tower Baptist Church, 2115 E. Grand Blvd., erect \$25,000 superstructure; brick, 2 stories, 48x82 ft.; basement in; L. J. Graham, Archt., 4953 National Bridge.

Mo., Springfield—Benton Avenue M. E. Church, J. P. Ramsey, Chmn., Bldg. Comm., remodel building, Pacific and Benton Sts.; Geo. F. Reed, Archt., Woodruff Bldg.

Mo., University City, St. Louis—Presbyterian Church erect \$150,000 church and Sunday school; LaBeaume & Klein, Archts., 716 Compton Bldg., St. Louis, advise that contract will not be let for 4 weeks.*

N. C., Charlotte—Myers Park Presbyterian Church, David Owens, Chmn., Bldg. Comm., plans building, Providence Rd. near Queens Rd.

N. C., Greensboro—First Presbyterian Church, J. A. Matheson, Chmn., Bldg. Comm., considering sketches by Hobart Upjohn, Grand Central Terminal, New York, for building; Harry Barton, Asso. Archt., Jefferson Bldg., Greensboro.*

Okla., Seminole—Methodist Church erect \$50,000 building. Address The Pastor.

Tenn., Chattanooga—First Baptist Church, W. H. Fox, Chmn., Bldg. Comm., erect \$300,000 church and Sunday school; auditorium and 2 balconies, seating 2000; Sunday school to be on Oak St.; R. H. Hunt & Co. and W. H. Sears, Archts., both James Bldg.

Tenn., Humboldt—Methodist Church plans building. Address The Pastor.

Tenn., Memphis—Church of Christ, Scient-

ist, care Mrs. Painter Rodwell, 1228 Overton Park Ave., plans 1 story and basement brick building, Peabody Ave. and Belvedere Blvd.

Tenn., Memphis—Christian Assembly Congregation, Rev. P. J. Lunati, Pastor, 195 N. Auburndale St., erect \$15,000 building, Looney Ave. and Manassas St.; brick, 1 story and basement, 50x74 ft., composition shingle roof, stone trim, wood floors, hot water heat; Hubert T. McGee, Archt., 801 Fidelity Bank Bldg.

Tenn., Memphis—Grace P. E. Church, Rev. Chas. T. Wright, Pastor, 401 Boyd Place, having plans drawn by Harker & Cairns, Court Square Bldg., for building.*

Tenn., Milan—Methodist Church remodel and erect addition to building; cost \$25,000; brick, 2 stories and basement, 38x73 ft., composition asbestos roof, hot-air heat; L. W. Parham, Archt., 586 N. Hays St., Jackson; bids in.

Tenn., Oakland—Methodist Church, Rev. W. H. Pearegen, Pastor, erect brick veneer building; 1 story and basement, 34x54 ft., composition shingle roof, wood floors; Hubert T. McGee, Archt., 801 Fidelity Bank Bldg.

Tenn., Siam—Baptist Church, Rev. S. O. Pinkerton, Pastor, erect \$10,000 building.

Tex., Brady—First Christian Church has plans ready about May 25 for rein. concrete, hollow tile and stucco building; cost \$30,000; 2 stories, 62x95 ft., rein. concrete foundation; L. Harrington Co., Archt.-Engr., Builders Exchange Bldg.*

Tex., El Campo—First Baptist Church, J. E. Evans, Chmn., Bldg. Comm., erect \$20,000 church and parsonage.

Tex., Fort Worth—Boulevard M. E. Church, South, receives bids May 10 for building; mechanical hot air heating, plumbing and wiring let separately; plans from Wm. C. Meador, Archt., 916 Dan Waggoner Bldg.

Tex., Fort Worth—First Baptist Church erect 2 permanent tabernacles, Magnolia Ave. and Lipscomb St., South Side, and Ellis and Exchange Aves., North Side; seat 7000 and 7000. Address The Pastor.

Tex., Houston—First Baptist Church, Rev. G. W. Thomas, Pastor, receive bids about 10 days for completing building, Ninth Ave. and Harvard St.; 2 stories, 60x90 ft.; basement in; C. N. Nelson, Archt.

Tex., Kingsville—First Baptist Church receiving bids for church and Sunday school superstructure; basement completed; cost \$35,000, concrete frame, steel interior beams, wood joists, tile and brick walls, 3 stories, 65x115 ft., cement and wood floors, tile and composition roof; Will N. Noonan Co., Archts., 301 Builders Exchange Bldg., San Antonio. Address proposals to Rev. E. E. Dawson, Pastor. See Want Section—Building Materials and Equipment.*

Tex., McKinney—First Presbyterian Church remodel building; new foundation and basement, new front; Clyde & Rolfe, Archts., Sherman.

Tex., San Antonio—Presbyterian Church of the Divine Redeemer, 1320 Morales St., Geo. E. Bell, Chmn., Bldg. Comm., has broken ground for \$20,000 Home of Neighborly Service, Salinas and Calaveras Sts.

Tex., San Benito—Presbyterian Church plans \$75,000 building. Address The Pastor.

Tex., Waco—Clay Ave. Methodist Church, Rev. E. R. Patterson, Pastor, plans building; Wm. C. Meador, Archt.

Va., Norfolk—Port Norfolk Baptist Church, M. L. Haycock, member, Bldg. Comm., Broad St., plans \$60,000 building.

City and County

Ala., Birmingham—Homewood, suburb of Birmingham, incorporated with C. E. Rice as mayor; having plans drawn by Ben Price, Age-Herald Bldg., Birmingham, for pressed brick and limestone city hall, Montgomery Highway; work start about 30 days.*

Ala., Decatur—Morgan County Board of Revenue has low bid at \$34,357 from C. G. Kershaw, for rebuilding burned courthouse; Ben Price, Archt., Age-Herald Bldg., both Birmingham.*

D. C., Washington—District Commissioners receive bids May 10 at Room 509, District Bldg., for public exhibition building for birds, National Zoological Park; 357,000 cu. ft.; proposal forms at Room 427.

Fla., Boynton—City, Harry Benson, Vice-Mayor, voted \$500,000 improvement bonds, including \$20,000 for municipal casino and \$20,000 for city hall and fire station.

Fla., Punta Gorda—Charlotte County Board of Comms. receive bids May 5 for courthouse; cost \$180,000; plans and specifications

from Leitner & Henson, Archts., 218 Magnolia Arcade, St. Petersburg.*

Ga., Atlanta—City, E. K. Bennett, Chmn., Park and Tree Commission, has \$14,000 permit for brick building, Mozley Park.

Ga., Canton—Cherokee County Board of Comms. erect \$150,000 fireproof courthouse to replace burned structure; probably granite or terra cotta exterior; A. Ten Eyck Brown, Archt., 717 Forsyth Bldg., Atlanta; drawing preliminary plans.*

Ga., Vinton—City, Mr. Perry, Mayor, erect fire station; 1-story, 18x26 ft., asbestos roof.

Miss., Jackson—City Commission receives bids May 3 for reinforced concrete, brick and steel jail; 2 stories, cost \$100,000; plans and specifications from Claude H. Lindsley, Archt., Lamar Life Bldg.*

Miss., Macon—Noxubee County Board of Supervisors, John A. Tyson, Chancery Clk., receives bids May 2 for repairing county jury and court rooms; plans and specifications on file at office Mr. Tyson.

N. C., Asheville—Buncombe County Board of Comms., E. M. Lyda, Chmn., have revised plans for 14-story basement and sub-basement courthouse and jail ready in few days; date for bids not set; cost \$1,300,000, 120x130 ft., steel frame, granite, limestone and marble exterior, ornamental columns, tile roof, marble, terrazzo and composition floors, metal casement windows, vapor heat, cell work, ventilating, 3 passenger and 1 freight elevator, bronze grill, special equipment; furnishings, equipment, etc., \$200,000; Milburn, Heister & Co., Archts., Hill Bldg., Washington, D. C., and First Nat. Bank Bldg., Durham, N. C.; excavation contract lately noted let.*

Tenn., Jackson—City Commission considers election on auditorium bonds.

Tenn., Smithville—DeKalb County voted \$50,000 courthouse bonds. Address Board of County Comms.

Tex., Harlingen—City votes May 3 (lately noted to vote April 27) on \$100,000 municipal auditorium bonds; reinforced concrete and stucco, 140x140 ft.; Birger A. Elwing, Archt.*

Tex., Hereford—City, E. S. Ireland, Mayor, soon call election on about \$75,000 bonds for City Hall and fire station; brick, stone and concrete.

Tex., Mission—City votes May 18 on \$100,000 bonds, including \$30,000 for fire station; plans by Congdon & Ewing, City Engrs.

Tex., San Angelo—City votes June 4 on \$750,000 bonds for 5-year improvement program, including \$250,000 for city hall with auditorium and \$75,000 for 4 sub-fire stations and equipment.

Tex., San Antonio—City, John W. Tobin, Mayor, has low bid at \$103,500 from J. E. Dickey, 216 Eleanor St., for city health dept. and clinic and detectives' quarters; elevators, Millner Co., \$5610; plumbing, Jud & Ormond, 703 N. Flores St., \$7182; and heating \$4596; wiring, A. H. Shafer, 418 N. St. Marys St., \$4819; Leo M. J. Diekmann, Archt., 306 E. Commerce St.*

Va., Richmond—City Council, Frank Bane, Jail Commr., considers combined city farm and jail.

W. Va., Clarksburg—City voted \$80,000 central fire station bonds. Address City Council.

Dwellings

Ala., Birmingham—Mrs. Helen R. Foster, care P. S. Mewhinney, Archt., 1014 Woodward Bldg., erect brick veneer residence, Carlisle Rd., Redmont Park; 2 stories, 48x27 ft., composition roof, furnace heat.

Ark., Fayetteville—H. H. Taylor, Clinton Bldg., Tulsa, purchased 80-acre tract, South Mountain; reported, plans summer residence.

Ark., Little Rock—First M. E. Church, South, Rev. H. D. Knickerbocker, Pastor, plans \$14,000 parsonage; brick veneer, 8 rooms.

Ark., Little Rock—Dr. J. I. Scarborough, care Trinity Hospital, erect \$15,000 residence, Armstead Addition; brick, 2 stories and basement; Max Mayer, Archt., New Donaghey Bldg.

Fla., Delray—Mrs. Wallace erect residence; Marion Sims Wyeth, Archt., Wyeth Bldg., West Palm Beach.

Fla., Delray—Howard F. Whitney, 49 Wall St., New York City, alter residence; Howard Major, Archt., Palm Beach.

Fla., Jacksonville—Carl A. Fenska, 201 Laura St., opens bids May 15 for 2-story duplex and double garage; brick veneer and

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stucco, tile roof, stone foundation, cost \$12,000. See Want Section—Building Materials and Equipment.*

Fla., Palm Beach—Judge Jerome D. Gedney, 350 Madison Ave., New York, erect residence, Manalapan; Addison Mizner, Archt., West Palm Beach.

Fla., Palm Beach—John F. Harris, member, Harris, Winthrop & Co., 11 Wall St., New York, erect residence, Harris Estate No. 4, El Bravo Way; Addison Mizner, Archt., West Palm Beach; bids in.

Fla., Palm Beach—Edw. F. Hutton, Breakers Hotel, remodel residence; Jos. Urban, Archt.

Fla., Palm Beach—Jules Bache alter residence, Barton Ave.; cost \$20,000; Howard Major, Archt., 19 Via Parigi St.

Fla., Palm Beach—Henry G. Barkhausen, Green Bay, Wis., started work on winter residence, Singer Place; Treanor & Fatio, Archts., Phipps Plaza Bldg.

Fla., Palm Beach—Paul Bonner, New York, erect residence, Nicholas tract; Treanor & Fatio, Archts., Phipps Plaza Bldg.

Fla., Palm Beach—Dr. Edmund Leroy Dow alter Casa Pequena, Golf View Rd.; Marion Sims Wyeth, Archt., Wyeth Bldg.

Fla., Palm Beach—Franklyn Hutton erect residence; Marion Sims Wyeth, Archt., Wyeth Bldg., West Palm Beach.

Fla., Palm Beach—Geo. Lowther, Riverside, Conn., considers residence; Treanor & Fatio, Phipps Plaza Bldg., drawing plans.

Fla., Palm Beach—Geo. McCarthy erect residence, Sea Spray Ave.; Treanor & Fatio, Archts., Phipps Plaza Bldg.

Fla., Palm Beach—Geo. Sloane, S. Ocean Blvd.; Clarence H. Geist, Golf View Rd., and Jay F. Carlisle, Golf View Rd., each alter residence; Marion Sims Wyeth, Archt., Wyeth Bldg.

Fla., Palm Beach—Frank Grainger Smith, Detroit, Mich., erect \$75,000 Italian type residence, Jungle Point; Howard Major, Archt., 19 Via Parigi St.

Fla., Palm Beach—Emil Stehl erect residence, Nichols tract; Treanor & Fatio, Archts., Phipps Plaza Bldg.

Fla., Palm Beach—Conkey P. Whitehead, W. Paces Ferry Rd., Atlanta, Ga., erect residence, Nichols tract; Treanor & Fatio, Archts., Phipps Plaza Bldg.

Fla., Palm Beach—Richard Wood, Buffalo, N. Y., erect residence, probably on Jungle Rd.; Treanor & Fatio, Archts., Phipps Plaza Bldg.

Fla., Venice—Lovering & Longbottom erect 5 duplexes, Barcelona Ave.; total cost \$45,000; Harrison Gill, Archt.

Fla., Winter Park—Mary C. Macdonald erect \$20,000 residence, Mary Du Macdonald Park.

Ga., Atlanta—Ellison & James erect 7 duplexes, 173-77-83-87-91-95 Walnut St., N. W.; also 7 at rear of above; frame, 1 story; total cost \$28,000.

Ga., Atlanta—F. P. & Geo. J. Morris, 104 N. Pryor St., erect 2 brick veneer dwellings, 1619-23 Stokes Ave.; 1 story; total cost \$12,000.

Ga., Atlanta—W. B. Winn, 233 Virginia Ave., erect 2 brick veneer dwellings, 761-87 Virginia Circle, N. E.; 1 story; total cost \$14,000.

Ky., Providence—J. E. Palmer erect \$15,000 residence; stucco, Spanish type, 2 stories and basement, 40x50 ft., tile roof, hardwood floors, hot-water heat; H. E. Boyle & Co., Archts., 410 Furniture Bldg., Evansville, Ind.; bids in.*

La., Baton Rouge—Chas. G. Manship, 230 St. Anthony St., erect \$35,000 residence; hollow tile and brick, 2 stories, tile roof, tile baths, steam heat, hardwood floors, hot water heaters; Lewis A. Grosz, Archt., Raymond Bldg., call for bids in few days.

La., New Orleans—W. A. Conkerton erect residence, Gentilly Terrace.

La., New Orleans—Mason & Sporl, Archts., Vincent Bldg., receiving bids for frame and stucco single bungalow, Gentilly; plan 131-A; tile roof, tile baths, hot air heat, hot water heater.

La., New Orleans—W. T. Higgins, Jefferson Heights, erect 5-room bungalow; bids within 90 days.

La., New Orleans—Jones, Roessle & Olschner, Archts., Maison Blanche Bldg., have drawn plans for 30 frame dwellings, Washington Ave.

La., New Orleans—Dr. T. M. Wilson erect English type residence, Broadway and Fountainebleau Drive; E. L. Markel, Archt., 3838 Louisiana Avenue Pkwy.

La., Shreveport—Hugh Fitzsimmons erect

\$25,000 brick veneer residence, Glen Iris subdivision; 2 stories, tile or slate roof, hardwood floors, tile baths, gas steam heat; Henry T. Schwartz, Archt., Slattery Bldg.; about ready for bids.

Md., Baltimore—Harlem Building Co., 2546 Edmondson Ave., erect several semi-detached Colonial brick dwellings, Calvert St. near Southway.

Md., Baltimore—Highfield Realty Co. erect 3 brick dwellings, Highfield Rd. near Charles St.; 2½ stories; total cost \$60,000.

Md., Baltimore—Anthony J. Will, 509 W. Lombard St., erect residence, Highfield Rd. near Charles St.

Md., Baltimore—Francis B. Wiers, Calvert Bldg., erect residence, Kingston Rd., Stoneleigh.

Md., Mount Washington, Baltimore—Theophilus White, Calvert and Baltimore Sts., Baltimore, erect residence, Crest Rd., Hill Top Park.

Miss., Boonville—Jos. W. Sanders erect \$12,000 brick veneer residence; 1-story and basement, 66x72 ft., composition shingle roof, oak floors, tile bath, hot water heat; J. Frazier Smith & H. M. Burnham, Archts., Goodwyn Inst. Bldg., Memphis, Tenn.

Miss., Collins—J. B. Crawford erect residence on ranch, Sun Set Highway.

Miss., Collins—Harvey Sheemake erect 3 bungalows.

Miss., Meridian—Meridian Star, Jas. Skewes, Mgr., erect \$10,000 model dwelling; frame, 1 story and basement, 38x77 ft., composition roof, stone trim, wood floors; P. J. Krouse, Archt., M. & W. Bldg.

Mo., Cape Girardeau—J. F. Vogelsanger, 223 Independence St., erect \$15,000 brick residence; 2 stories, 35x45 ft., asbestos shingle roof, vapor heat, wood floors; R. K. Knox, Archt., 424 H. & H. Bldg.; bids in.

Mo., Clayton, St. Louis—H. E. Wilson, 3533 Lafayette St., erect English type brick residence, Tuscan Park, Big Bend Rd.; 2 stories and basement, 30x67 ft., slate roof, hardwood floors, 2 tile baths, electric refrigerator, incinerator; Jesse L. Bowling, Inc., Archt., 1198 Arcade Bldg., St. Louis.

Mo., Clayton, St. Louis—Ray Agatstein erect \$12,000 brick residence and garage, Moorlands; 75x60 ft.

Mo., Columbia—Rollins & Rollins erect \$10,000 dwelling, Grasslands; brick, hollow tile and stone, 2 stories and basement, 23x35 ft.; H. S. Bill, Archt., Miller Bldg.; bids in.

Mo., Kansas City—Hempfling Investment & Construction Co. erect 3 duplexes, 400-18 Meyer Blvd.; 2 stories, 25x50 ft. and 37x34 ft., stucco; total cost \$30,000.

Mo., Kansas City—David E. Long, 616 Chambers Bldg., purchased 152-acre farm, Benjamin Duck Rd.; erect rustic lodge.

Mo., Kansas City—F. Wilmot Taylor, care F. W. Taylor & Co., 760 Live Stock Exchange, purchased homesite, 820 W. 63rd St., Hampstead Gardens.

Mo., St. Louis—Glitt & Steinbaum, 101 N. Eighth St., erect \$15,000 residence, Pershing and Laurel Sts.; 2 stories and basement, 33x33 ft., stone foundation, oak floors, tile roof, tile bath, yellow pine trim, hot water heat; O. J. Popp, Archt., 1501 Arcade Bldg.; plans complete.

Mo., St. Louis—Edw. Hoffman, 4011 W. Florissant St., erect \$18,000 brick residence, Lookaway Drive; 2 stories and basement, 32x40 ft., hardwood floors, slate roof, rubble stone foundation, tile bath, Kernerator, electric refrigeration; L. J. Graham, Archt., 4885 Natural Bridge Rd.

Mo., St. Louis—H. Rubelmann, 6908 Kingsley St., ready for bids on brick residence, Tuscan Park, Big Bend Rd.; 2 stories and basement, 30x84 ft., 3 tile baths, hardwood floors, slate roof, incinerator, electric refrigeration; Jesse L. Bowling, Inc., Archt., 1198 Arcade Bldg.

Mo., St. Louis—E. Albert Stein, 8105 Page St., erect \$10,000 residence, Vinita Park; 2 stories and basement, 25x32 ft., brick and stucco, concrete foundation, asphalt shingle roof, yellow pine and hardwood floors, yellow pine trim, tile bath, hot water heat; Philip Rollhaus, Archt., 606 Central Nat. Bank Bldg.

Mo., St. Louis—Edw. Wilkinson, 511 Locust St., erect \$11,000 brick residence, Wyoming St. near Louisiana St.; 2 stories and basement, 26x48 ft., hardwood floors, cut stone, tile bath, hot air heat; F. J. Roberson & Sons, Archts., 13 N. Jefferson St.

Mo., University City, St. Louis—Chas. A. Becker, Star Bldg., erect English type brick residence, Greenway Ave., University Hills; 2 stories and basement, 40x68 ft., slate roof, 3 tile baths, hardwood floors; Jesse L. Bowling, Inc., Archt., 1198 Arcade Bldg., St. Louis.

Mo., Wentzville—St. Patrick's R. C. Church erect \$8000 rectory after plans by Rush, Lee & Rush, 6038 Delmar Blvd., St. Louis; open bids May 1; brick and tile, 2 stories, 31.10x42 ft., concrete foundation, roofing not decided; furnishings, equipment, etc., \$3000; probably let contract for Holland 4600 Shaw Ave.; plumbing let to Thos. H. Furnace heating to Holland Furnace Co., Ryan, 6307 Minnesota Ave., both St. Louis; electrical work probably be let to East Missouri Power Co., Troy. Address Rev. M. J. Clarke, P. O. Box No. 4. See Want Section—Building Materials and Equipment.*

N. C., Greensboro—A. K. Moore Realty Co., 116 W. Market St., erect \$12,000 dwelling, Madison Ave., near Chapman St.; brick veneer, 2 stories, 8 rooms, composition roof.

N. C., High Point—Stephen C. Clark, Commercial Bank Bldg., erect \$40,000 residence, Emerywood; Southern Colonial type, 2 stories, about 12 rooms, white shingles, slate roof; Fred B. Klein, Archt., 154 S. Main St.

Okla., Enid—R. R. Kisner erect \$40,000 residence, connection with development, Kisner Heights.

Okla., Enid—W. H. Kisner erect \$40,000 residence.

Okla., Oklahoma City—G. A. Nichols, Inc., 115 N. Harvey St., erect 7 dwellings, 700 block E. 19th, 800 block E. 20th and 1900 block E. 18th Sts.; total cost \$32,800.

S. C., Beaufort—P. Theus erecting 2-story 10-room residence.

Tenn., Etowah—J. Tom Felker, Etowah, erect residence, connection with new town, "Felkertown."

Tenn., Keeling—Ereman Smith erect \$10,000 residence; brick veneer, 2 stories and basement, 70x58 ft., composition shingle roof, oak floors, tile bath, frame garage; R. A. Heavener, Archt., Jackson.

Tenn., Knoxville—W. R. Pitner, Hawthorne Ave., erect 10 frame dwellings, Scottish Pike; total cost \$12,000.

Tenn., Memphis—J. A. Goodwin, 400 Walker Ave., plans 6 dwellings; brick veneer, 1 story and basement, composition shingle roof, oak floors, hot water heat, tile work in baths, frame garages; total cost \$25,000.

Tenn., Memphis—S. K. Belcher, 1872 Poplar Ave., erect brick veneer and Stonekote residence; 2 stories and basement, 60x40 ft., composition shingle roof, oak floors, tile baths, steam heat, garage; Estes W. Mann, Archt., 303 Cotton Exchange Bldg.

Tenn., Memphis—E. E. Clark, care Southern Cotton Oil Co., erect \$12,000 brick veneer or Stonekote residence, Hein Park; 2 stories and basement, composition shingle roof, oak floors, tile bath, steam heat, garage; Estes W. Mann, Archt., 203 Cotton Exchange Bldg.

Tex., Abilene—Hardy Grissom, Haskell, erect \$25,000 residence; Spanish type, brick, tile and stucco, 2 stories; Carvel & Co., Archts.-Contrs., Frost Bldg., San Antonio.

Tex., Austin—Austin Development Co., H. G. Hubert, Resident Mgr., erect 2 dwellings, Pemberton Heights; English and Spanish types; also complete Pemberton Castle.

Tex., Corsicana—H. R. Strube erect \$75,000 residence; brick veneer and field stone, 2 stories, 12 rooms, slate roof.

Tex., Dallas—E. P. Fisher, 2806 Park Row, erect \$12,500 residence, 5804 Swiss St.; brick veneer, 7 rooms.

Tex., Fort Worth—T. P. Brasher, 614 Louisiana St., erect 8 frame dwellings, 3400 blocks Townsend and Gordon Sts.; total cost \$20,000.

Tex., Fort Worth—J. F. Garrison, Texas Nat. Bank Bldg., erect \$20,000 brick veneer residence, 2405 Winton Terrace.

Tex., Fort Worth—Mobley & Delaney, Texas Nat. Bank Bldg., erect 3 brick veneer dwellings, 2130-2135 Stanley St., and 2032 Windsor Place; total cost \$27,000.

Tex., Houston—A. S. Henley, 407 Colquitt St., erect 2 duplexes, Colquitt and Bute Sts.; 2 stories, brick veneer; total cost \$35,000; Cornell G. Curtis, Archt.

Tex., Houston—W. G. Price, Mgr., Southern Engine & Pump Co., 615 Washington St., erect summer residence, Clear Creek, Rio Vista Estates.

Tex., Houston—Franklin Building Co. erect 2 frame dwellings, 4409-4421 Clay St.; 6 rooms; total cost \$12,250.

Tex., Houston—R. W. Briggs, Pharr, erect residence, River Oaks Blvd. and Del Monte Drive, River Oaks.

Tex., Houston—B. W. Holtz, 815 Sul Ross St., erect \$10,500 frame dwelling, 5330 Mandell St.; 4 rooms.

Tex., Houston—O. A. Frick erect \$10,000 brick veneer residence and garage, 1919 Kipling St.; 2 stories, 9 rooms and bath.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Marshall—F. C. Fox receives bids April 30 at office C. G. Lancaster, Archt., for 2-story and basement residence, including electric wiring and plumbing, about 13 miles from Marshall.

Tex., Quanah—Quanah Cotton Oil Co. erect number employees' dwellings.

Tex., San Antonio—A. E. Basse erect \$20,000 addition to residence; Phelps & DeWees, Archts., 718 Gunter Bldg.

Tex., San Antonio—C. E. Tolhurst, 214 W. Agarita St., erect 8-room residence, Agarita St.; cost about \$10,000.

Tex., Sherman—Judge J. F. Holt, 703 Birge St., remodel and erect addition to residence; oak floors; Clyde & Rolfe, Archts.

Tex., Sonora—M. L. Aldwell remodel and erect second story to residence; sketches completed; frame, 35x42 ft., oak and pine floors, composition shingle roof, warm-air heat, cost \$10,000; Will N. Noonan Co., Archts., 301 Builders Exchange Bldg., San Antonio. See Want-Section—Building Materials and Equipment.*

Tex., Wichita Falls—Marvin Smith, 2412 Ninth St., erect \$18,500 brick residence, 2209 Miramar St.

Va., Richmond—J. A. Duffy, 1638 W. Grace St., erect brick dwellings, 3233 Patterson Ave. and 609 N. Tilden St.; total cost \$12,000.

Va., Richmond—J. T. Lewis, 1422 E. Cary St., erect residence, 103 S. Colonial Ave.; cost about \$10,000.

Va., Richmond—Hillcrest Realty Corp., Grace American Bank Bldg., erect number English type dwellings, Hillcrest-by-the-James; cost about \$30,000 each; total cost \$250,000; brick, about 2 stories and attic, 2 baths, built-in bookcases, electric refrigeration and built-in press in kitchen, oil burning heat, garage; Baskerville & Lambert, Archts., Travelers Bldg.

Va., Richmond—L. R. Brown, 1519 Hull St., erect 2 brick dwellings, 1514-1602 Bainbridge St.; total cost \$14,000.

Government and State

Ala., Selma—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., reported, erect \$50,000 addition to post office; Robt. Patterson, Postmaster.

Fla., Lake Wales—Jesse T. Rhodes erect building, Park Ave., and lease to Government for post office.

Mo., Jefferson City—Governor Sam A. Baker signed bill appropriating \$250,000 for prison building within Missouri Penitentiary walls to accommodate incorrigible convicts.

Tex., Houston—56th Calvary Brigade, Texas National Guard, Major Walter B. Pyron, Vice-Pres., Gulf Production Co., Gulf Bldg., in charge of raising funds; completed plans for armory, Buffalo Drive; 50x100 ft.

Hospitals, Sanitariums, Etc.

Ala., Mobile—Mobile Tuberculosis Sanatorium has offer from Sol Kahn to erect negro ward.

Ark., Little Rock—Neighbors Mothers Congregation, Rev. Ira S. Ash, Pres., plans clinic.

Fla., Coral Gables, Miami—City of Coral Gables, R. M. Davidson, City Mgr., considers taking over and improving Tallman Hospital; also considers erecting and operating independently small municipal hospital.

Fla., Ocala—City Council, C. Carmichael, Chmn., about ready for bids on \$40,000 equipment for \$150,000 Munroe Memorial Hospital under construction; Geo. MacKay, Archt.; Fredk. Uezell, Asso. Archt., Robertson Block, Ocala; Grahn Construction Co., Contr., 133½ Magnolia Bldg., Daytona Beach.*

Fla., Sarasota—City erect \$20,000 nurses' home and \$35,000 hospital building at Sarasota Hospital, after plans by Clare Hosmer, Ringling Boulevard; concrete, clay tile and stucco, 2 stories, concrete foundation; other details not determined; furnishings, equipment, etc., \$10,000. Address Owner, Dana Milligan, Chmn., Hospital Board.*

Georgia—Estate of Mrs. Cora B. Williams, John Lloyd Nisbet, Executor, Atlanta, establish \$5,000,000 Jesse Parker Williams Memorial Hospital for women and children.

La., Ruston—Chamber of Commerce, B. H. Rainwater, Chmn., Industrial Comm., interested in \$50,000 sanitarium.

Md., Frederick—Frederick City Hospital, Emory L. Coblenz, Chmn., Hospital Comm., erect Thomas B. Johnson Memorial nurses' home; 25 rooms; Edw. Leber, Archt., Hay

Bldg., York, Pa.; Jos. Evans Sperry, Conslt. Archt., Calvert Bldg., Baltimore, Md.

Miss., Jackson—State Hospital Removal, Improvement and Land Sale Commission, R. L. Brown, Sec., Box 40, receives bids May 10 for heating, plumbing, electrical wiring and special equipment for hospital building and hydro-therapy dept. for \$4,500,000 Mississippi Insane Hospital; plans and specifications from N. W. Overstreet, Archt., Miss. Fire Bldg., Jackson; Harry C. Muskopf, Landscape Archt.-Engr., 864 Newport Ave., St. Louis, Mo.*

N. C., Marion—Marion Holding Corp. organized to erect hospital. Address Owner, care Kiwanis Club.

Okl., Oklahoma City—State Board of Public Affairs plans \$330,000 hospital for crippled children, connection State University Medical School. See Buildings Proposed—Schools.

Tex., Edinburg—City Council ready for bids about May 10 for mechanical work for \$390,000 city hospital under construction; Giesecke & Harris, Archts., 207 W. Seventh St., Austin and Edinburg; W. L. Pearson & Co., Inc., Gen. Contractors, contract sub-let to R. W. Briggs & Co., Pharr.*

Tex., San Antonio—Santa Rosa Infirmary, 745 W. Houston St., have plans ready about April 30 for bids on Gothic type building; cost \$500,000, brick, cast stone, reinforced concrete frame and floor slabs, fireproof, 5 stories and basement, 160x50 ft., tile corridors and baths, metal lath and plaster partitions, gravel roof, washed air cooling system, 70 patients' rooms; Altee B. & Robt. M. Ayres, Archts., Bedell Bldg.*

Tex., Terrell—State Board of Control, Dr. H. H. Harrington, Chmn., Austin, selected Terrell Bartlett Engineers, Inc., Calcasieu Bldg., San Antonio, as engineers for sewer extensions at State Hospital; also for sewer work at Juvenile Training School, Gatesville.

Tex., Wichita Falls—State Board of Control, Dr. H. H. Harrington, Chmn., Austin, selected Montgomery & Ward, Harvey-Snyder Bldg., as engineers for tunnel for steam heat distribution, Southwest Texas Hospital for Insane; cost \$25,000. (Engineers lately incorrectly noted.)*

Va., Portsmouth—Naval Hospital erect 5 officers' quarters; bids opened April 27.

W. Va., Parkersburg—Parkersburg Academy of Medicine interested in 100-room addition to Camden-Clark Memorial Hospital.

Hotels and Apartments

Ark., Fayetteville—Washington Hotel, Mrs. Jack Fulbright, Propr., purchased adjoining building, will remodel.

Ark., Fayetteville—John Anderson soon start work on \$16,000, brick veneer building on Arkansas Ave.; house University students.

Fla., Jacksonville—W. A. Anderson, 721 Davis St., erect \$14,000, 4-apartment house on Pine St., South Jacksonville.

Fla., Jacksonville—V. Hall has permit for \$12,000, 2-story, brick veneer flats, 17th between Main and Hubbard Sts., for Dorothy Brayn, 2274 Market St.

Fla., Quincy—Frank Edwards, owner of Quincy Hotel, plans improvements.

Ga., Atlanta—James Banks erect \$40,000, 2-story and basement, brick veneer apartment building at 872-8 Briarcliff Road, N. E.

Ga., Homerville—Homerville Community Hotel Corp., Judge S. L. Drawdy, Pres., plans \$50,000, 30-room hotel building.

La., Monroe—J. E. Doughtie, owner of Hotel Monroe, soon start work on \$25,000, 24-room fourth floor addition to hotel annex on Wood St.

N. C., Canton—W. T. Sharp, owner of Imperial Hotel, plans to remodel and enlarge; add 10 rooms with bath, brick, 3 stories.

N. C., Charlotte—Lex Marsh, 24 E. Fourth St., H. J. Anthony, 502 Pecan Ave., and others planning to erect hotel apartment house in Greenway section.

N. C., Charlotte—H. B. Farrington 703 N. Graham St., erect \$20,000, 16-room, brick veneer apartment house at 1003 W. Sixth St.

Okl., Ada—E. M. Woody, Bristow and Tulsa, will erect 5-story and basement, fireproof, brick and reinforced concrete hotel building; 80 or more rooms, half of which will contain baths; also coffee shop, lobby, store rooms, etc.

Okl., Tulsa—Julius Livingston, Kennedy Bldg., has plans in progress by N. B. Fleming, Bliss Bldg., for \$50,000, 3-story, brick and frame apartment building.

Tex., Amarillo—W. C. Hawk and associates, Sixth and Filmore Sts., soon re-

ceive bids for \$25,000, 2-story, 60x100 ft., face and common brick business building; E. F. Rittenberry, Archt., 301 Blackburn Bldg.

Tex., Corpus Christi—Nueces Hotel receives bids May 10 for 6-story, 105-room, reinforced concrete and brick wing addition and \$65,000, 2-story, reinforced concrete, brick, terra cotta trim mechanical building; include boiler room, electrical generators, refrigeration plant, etc.; Adams & Adams, Archts., Builders Exchange Bldg., San Antonio.*

Tex., Dallas—C. Farwell erect \$12,000, 2-story, brick veneer, 16-room apartment building, 6345-9 Richmond St.

Tex., Houston—J. J. Schuller erect \$10,000, 2-story, brick veneer 4-apartment building at 509 Eastwood Drive.

Tex., La Feria—La Feria Hotel Co., care Al Parker, has preliminary sketches in progress by Ralph H. Cameron, 1116 City Nat. Bank Bldg., San Antonio, and R. Newell Waters, Weslaco, Asso. Archts., for \$100,000, 4-story, 50-room, reinforced concrete frame and floor slabs, hollow tile and brick community hotel.*

Tex., Palestine—Sherman Hotel Co., William C. Witt, Pres., Sherman, reported conferred with Chamber of Commerce, Y. H. Wren, Sec., regarding contemplated hotel building; Mr. Witt advises: "We have nothing to do with the hotel at Palestine as yet."

Tex., San Angelo—Mrs. F. S. Mills erect apartment building on W. Beauregard St.

Tex., San Antonio—Baker Hotels, Inc., T. B. Baker, Pres., completing plans for proposed 22-story annex to Gunter Hotel.

Tex., Waco—Hilton Hotel Co., 1933 Main St., Dallas signed contract to erect \$1,000,000, 12-story, basement and mazzanine, 200-room reinforced concrete hotel, S. W. cor. Austin and Fourth Sts., provided Waco raises \$50,000 bonus; Lang & Withchell Archts., American Exchange Bank Bldg., Dallas.

Tex., Wichita Falls—W. H. Hamilton, Hamilton Hotel, plans to construct 2 additional stories on top present 11-story building, to be leased to Wichita Club; Bryan & Sharp, Archts., 707 Construction Bldg., Dallas.

Va., Richmond—W. E. Purcell, 104 W. Eighth St., and C. L. Massel erect \$18,000, 3-story, brick apartment house, 3501 Park Ave.

Va., Richmond—Mrs. Marie L. Parsons, 3301 Grove Ave., erect \$26,000, 3-story, brick apartment house at 3333 W. Grace St. and similar building at 3337 W. Grace, to cost \$30,000.

Va., Richmond—M. L. Ware erect \$18,000, 3-story, brick apartment building, 3007 Park Ave.

Va., Richmond—Leroy Goldberg, 2800 Monument Ave., erect \$24,000 apartment building at 3500 Monument Ave.

Va., Richmond—C. L. Massel, 507 N. Lombardy St., and W. E. Purcell, 104 N. Eighth St., erect \$90,000 and \$25,000 apartment buildings at 3217 Chamberlayne St. and 604 Nansemond St.

Va., Richmond—Frederick E. Nolting, 907 E. Main St., and Grey Skipwith, 518 W. Franklin St., plan to erect \$800,000, 54-family apartment building at 610-14 W. Franklin St.

Va., Richmond—C. F. Sauer, Sr., 2000 W. Broad St., erect apartment building on Kent Road and at 3900 and 3914 Monument Ave. and 3915 E. Grace St.; cost \$250,000.

Va., Woodstock—Claude Layman, Harrisonburg, and associates planning to erect hotel building near Woodstock.

Miscellaneous

Ark., Little Rock—Executive Committee of Arkansas Press Assn. accepted proposal of E. G. Bylander, Sec.-Mgr. State Fair Assn., to construct Press building at State Fair Park, to be used as headquarters of Arkansas Press Assn.

Fla., Jacksonville—Jacksonville Woman's Club receives bids May 2 for \$50,000 125x130-ft. clubhouse, Riverside Ave. and Post St.; Mellen C. Greeley, Archt., 32 W. Forsyth St.

Fla., Palm Beach—Clark Laurence, Archt., Flagler Drive, drew plans for group of buildings as an art center for Mrs. Glenn Hodges.

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Fla., Palm Beach—Bruce Kitchell, Archt., drawing plans for number projects.

Fla., Palm Beach—Treanor & Fatio, Phipps Plaza Bldg., drawing plans for addition to patio at residence of John Sanford; swimming pool for H. C. Phipps, and number shops and office buildings.

La., New Orleans—Morrison Cafeteria Co., Meaker Bldg., Mobile, Ala., reported, erect \$100,000 cafeteria on Gravier between Baronne and Dryades Sts.; tile and composition roof, plastered interior.

Miss., Lucedale—George County Times sponsoring movement for erection of community hall, include auditorium, city offices, ladies' rest rooms on ground floor; athletic hall, library, baths, keeper's rooms and kitchen on second floor.

Miss., Pascagoula—E. H. Bacot, F. S. Canty and H. F. Gautier comprise committee appointed by Chamber of Commerce to canvass situation and solicit stock subscriptions for \$45,500 country club and golf course.

N. C., Shelby—Cleveland Country Club, Charles L. Eskridge, Pres., erect \$12,500 clubhouse in Cleveland Springs estate.

S. C., Columbia—Ridgewood Country Club, Ernest M. DuPre, Pres., voted to issue \$50,000 bonds for improvements and pay off indebtedness; include water piping golf course, construct swimming pool, painting and improving clubhouse.

Tenn., Chattanooga—Unikawi Country Club, Dr. R. C. Maxwell, Provident Life Bldg., chmn. executive board, plans to erect \$30,000 clubhouse.

Tenn., Nashville—Avondale Civic Club, O. E. Bennett, Pres., will purchase site and erect clubhouse.

Tex., Cuero—Turkey Trot Fair Assn. plans to erect grandstand and main exhibit hall on Lackey Hill property.

Tex., Houston—G. W. Thompson, Constl. Engr., 201 Mercer Bldg., Syracuse, N. Y., prepared plans for \$225,000, steel and concrete baseball park for Houston Baseball Assn.; bids taken on structural steel and contract will be awarded within 30 days; general plans will be completed so bids may be taken and work start about Oct. 1; Henry F. Jonas & Tabor, Asso. Archts., Union Nat. Bank Bldg.*

Va., Clarendon—E. J. Skidmore, Chmn. of committee, planning to build community house at Virginia Highlands.

Va., Roanoke—Virginia Museum of Natural History, Inc., W. Ryland Martin, Sec. and Treas., P. O. Box 1088, has plans by G. R. Ragan, 202½ Second St., S. W., for \$75,000, 50x200 ft., brick public museum in Elmwood Park; 1-story, with foundation for 3, cement foundation, hardwood floors, terra cotta roofing. See Want Section—Building Materials and Equipment.*

W. Va., Fairmont—Rev. John W. Sproul, 6938 Thomas Blvd., Pittsburgh, Pa., purchased 75-acre tract on State highway, between Morgantown and Fairmont, as permanent tabernacle site; include 100 portable cottages, golf course, etc.

Railway Stations, Sheds, Etc.

Ky., Central City—Illinois Central R. R., F. Bleasie, Ch. Engr., Chicago, Ill., and Louisville and Nashville Railroad, W. H. Courtenay, Ch. Engr., Louisville, Ky., submitted plans to Board of Trade for new union depot.

Okla., Enid—A. T. Hawk, Engr. of Buildings, Chicago, Rock Island and Pacific Railway Co., Chicago, Ill., advises regarding passenger station: "We do not contemplate a new building at this point at present time."*

S. C., Edgefield—Georgia and Florida Railroad, H. B. Holmes, Ch. Engr., Augusta, Ga., erect depot.

Schools

Ala., Spring Hill—President and Trustees of Spring Hill College receive bids until April 27 for 3-story, reinforced concrete, 207x39 ft. dormitory; wood and terrazzo floors, concrete foundation, slate roof; following contractors estimating: Jett-Quill Construction Co.; Dolout & Ewin, Inc.; Queen Crescent Bldg., New Orleans, La.; Owen Construction Co., 104 S. Lawrence St., Mobile; B. E. Bufaloe & Co., 658 East St., Memphis, Tenn.; R. E. Sundberg Construction Co.; M. H. Roberts; Jacob Vander Sys & Son; Asso. Archts. are Clarence Hutchisson, William A. Marsh, both State Office Bldg.; J. Platt Roberts, First Natl. Bank Bldg.; and A. H. Downey.*

Fla., Lemon City—Dade County Board of Public Instruction, Ray L. Hamon, Director

of Building Construction, Miami, receives bids May 6 for \$400,000 Dade County Agricultural High School; include academic building and separate home economics structure; separate proposals for general work, plumbing and electrical work; H. Hastings Mundy, Archt., 218 N. E. Fifth St.

Fla., Palm City—See Fla., Stuart.

Fla., Stuart—Martin County Board of Public Instruction, Edward Mapp, Supt., has preliminary plans in progress by Bert D. Keck, for addition to Stuart High School and by Nat Hogdon for Palm City School.*

Ga., Adel—Cook County Board of Education calls election May 17 on \$95,000 bonds; \$60,000 to be used in building and equipping high school and remainder for erecting grammar school at Sparks and remodeling grammar school in Adel.

Ga., Columbus—Muscogee County Board of Education, L. P. Mathews, Supt., considering erecting school building in Beallwood section.

Ga., Rockingham—Trustees of Rockingham School District, Bacon County, call election April 29 on \$10,000 bonds for new High School.

Ky., Berea—Berea College plans early construction of first unit of \$300,000 science hall.

Ky., Louisville—St. Brigid's Parish, care the Pastor, has plans by D. X. Murphy & Bro., Louisville Trust Bldg., for \$85,000 parochial school building.

La., Baton Rouge—East Baton Rouge Parish School Board, W. H. Perkins, Chmn. Bldg. Comm., receives bids until May 16 for remodeling and repairing Senior High School building on Florida St.; plans and specifications from Wogan & Bernard, Archts., Raymond Bldg.

La., Franklin—Hanson Memorial School, Rev. J. J. Rousseau, Pastor, receives bids May 5 for alterations and additions to 2-story brick school building; \$22,000; include plastering interior, new plumbing, electric wiring, heating and alterations and additions to auditorium; Wm. R. Burk, Archt., Balter Bldg., New Orleans; following contractors propose to bid on work: Dudley & Wikle Construction Co., Stern Bldg., New Orleans; E. E. Rabalais, Bunkie; J. A. Duhe, Hahnville; Marvin Morris, Franklin.*

La., New Orleans—Orleans Parish School Board, A. J. Tete, Sec., receives bids May 13 for additions and alterations to S. J. Peters Boys' High School of Commerce, S. Broad and Banks Sts.; plans and specifications at office Supv. Archt., School Board, City Hall Annex.

La., Shreveport—Caddo Parish School Board, E. W. Jones, Supt., receives bids until May 11 for following: Auditorium addition to Greenwood School; 4-room addition to Mooringsport School; 6-room addition to Line Ave. School; 6-room addition to Parkview School and 2-room toilet addition to Queensboro School; plans and specifications from Edward F. Neild, Archt., Merchants Bldg.

Md., Ellicott City—Howard County Board of Education considering erecting 4-room consolidated school at Scaggsville.

Miss., Blue Mountain—Blue Mountain College, Lawrence T. Lowrey, Pres., received gift of \$100,000 by Field Co-operative Assn., B. B. Jones, Pres., for new fireproof dormitory.

Miss., Brooklyn—N. W. Overstreet, Archt., Gulfport, preparing plans for \$75,000 academic building for Brooklyn Agricultural High School.

Miss., Collins—Lone Star Consolidated School District board of governors call election April 29 on \$10,000 bonds for new school building.

Miss., Fayette—Fayette Separate School District votes May 9 on \$50,000 bonds for new school building and repairs and improvements to present properties; J. V. Farr and E. G. Truly, trustees.

Miss., Hattiesburg—State Teachers College considering erecting gymnasium building.

Miss., Houston—School Board, L. D. Gray, Pres., receiving bids, date of opening not announced, for \$90,000, 2-story, reinforced concrete, brick and stone trim school building; J. M. Spain, Archt., Millsaps Bldg., Jackson.*

Miss., Saucier—N. W. Overstreet, Archt., Gulfport, selected to prepare plans for \$35,000, brick and hollow tile Saucier Consolidated School building. Address Harrison County Board of Education, Gulfport.*

Miss., Sumrall—Sumrall Separate School District voted \$30,000 bonds for new High School building. Address Board of Trustees.

Miss., Winona—Board of Mayor and Aldermen will issue bonds for negro school building.

Mo., St. Louis—Ladies of the Sacred Heart purchased 39-acre tract on Conway and Spode Roads, St. Louis County, preparing plans for first of group of buildings to be occupied by academic division of their institution, Maryville, at Nebraska Ave. and Meramac St.

Mo., St. Louis—Very Rev. Charles H. Cloud, Pres. of St. Louis University, announced all buildings of School of Medicine at Grand Blvd. and Caroline St. will be replaced this year by \$600,000, 5-story, fireproof structure; L-shaped, 97x50 ft., each arm of L 50 ft. wide and 70 ft. high; first of contemplated building program to ultimately cost \$2,000,000.

N. C., Greensboro—Building Committee of Board of Directors of North Carolina College approved awarding of contract to Jewell-Riddle Co., Sanford, at \$67,500, for west wing of Curry Building; W. W. Dick, 246 Bellemeade St., heating at \$7250; Crutchfield Plumbing Co., 311 S. Green St., plumbing at \$5175.

N. C., Greenville—Board of Trustees of East Carolina Teachers College planning to erect new building; Wayne A. Mitchell, member building committee.

N. C., Marion—Climchfield School District voted \$100,000 bonds and Cross Mill School District \$30,000 bonds. Address McDowell County Board of Education.*

Okla., Hennessey—Hennessey Independent School District No. 13 voted \$50,000 bonds for new school building. Address Board of Trustees.

Okla., Norman—Dr. W. B. Bizzell, Pres. of University of Oklahoma, announced work on \$500,000 library building will be delayed until late this year or early in 1928; work start in 60 days on \$130,000 student infirmary.

Okla., Oklahoma City—State Board of Affairs reported planning \$250,000 medical school building; also \$350,000 crippled children's hospital in connection.

Okla., Tulsa—School Board will have plans about May 15 for several school buildings, provided through \$750,000 bond issue; include vocational school and several additions; Leland Shumway, Archt., Alexander Bldg.*

S. C., Gaffney—Limestone College, R. C. Granberry, Pres., has plans and specifications in progress for student activities building; heating plant in basement, 60x20 ft. swimming pool on ground floor and gymnasium on second floor.

Tenn., Harrogate—Business Mgr., Lincoln Memorial University, receives bids May 4 for constructing auditorium and administration building.*

Tenn., Lawrenceburg—Lawrence County Court plans to issue \$100,000 school bonds; to include \$50,000 for new school building.

Tenn., Memphis—Board of Education rejected all bids for 15-room addition to Humes High School; Pfeil & Awsumb, Archts., Dermon Bldg., will revise specifications and call for new bids.

Tenn., Pikeville—Rledsoe County Board of Education, care J. H. Miser, selected James G. Gauntt, Archt., Hamilton Natl. Bank Bldg., Chattanooga, prepare plans for \$70,000, 2-story elementary and high school, replace structure burned; reinforced concrete skeleton, surface brick, fireproof, 56x180 ft. with 50x70 ft. auditorium, hardwood over concrete floors, terrazzo corridors, concrete foundation, concrete slab and tar and gravel roofing. Address all proposals to Mr. Miser. See Want Section—Building Materials and Equipment; Machinery and Supplies—School Furniture and Equipment.*

Tenn., Trenton—City, T. K. Happel, Mayor, will issue bonds to erect colored school building.

Tex., Amarillo—Amarillo Independent School District voted \$600,000 bonds for building program; address William A. McIntosh, Supt. of Board of Education.*

Tex., Austin—University of Texas contemplates erecting \$25,000 combination gymnasium and auditorium with seating capacity about 8000; Herbert M. Greene & Co., Archts., Santa Fe Bldg., Dallas.*

Tex., Beaumont—City Commission, Ollie J. Boyd, City Mgr., will call \$450,000 school bond election.

Tex., College Station—James Sullivan, Bus. Mgr., Dept. of Physical Education, Agricultural and Mechanical College of Texas, receives bids May 2 for construction of \$75,000 concrete stadium.

Tex., Hondo—Board of Education Hondo

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Independent School District; opened bids for erecting 1-story, 16-room and auditorium, brick and concrete school building; J. E. Dickey, Builders Exchange Bldg., San Antonio, low bidder at \$49,179; Henry T. Phelps, Archt., Hicks Bldg., San Antonio.*

Tex., Houston—Rice Institute opens bids about May 20 for 2 and 3 story brick, marble and concrete, 82x70 ft., Robert and Agnes Cohen faculty club; concrete foundation, Spanish tile floors, tile roof; William Ward Watkin, Archt., 212 Scanlan Bldg. See Want Section—Building Materials and Equipment.

Tex., San Angelo—Father Turibius Christman, rector, announced plans for \$40,000, brick building on site of Immaculate Academy.

Tex., San Antonio—Carroll School for Girls, Dr. Hulen R. Carroll, Pres., plans to raise \$35,000 for new building.

Tex., Santa Rosa—Santa Rosa School District defeated \$60,000 bond issue for school building; Ralph H. Cameron, Archt., 1116 City Natl. Bank Bldg., San Antonio.*

Tex., Sinton—Board of Education soon call for bids for \$90,000, 1-story, fireproof High School building; brick and hollow tile walls, concrete foundation, concrete and pine floors, built-up roof, steam heat; Page Brothers, Archts., 348 Austin Natl. Bank Bldg., Austin.*

Tex., Valley View—Valley View Common School District, receiving bids for \$10,000, 1-story, 2-room, brick, hollow tile and concrete school building; no plumbing, heating or wiring in building; Ralph H. Cameron, Archt., City Natl. Bank Bldg., San Antonio.

Tex., Van Horn—Van Horn Common School District No. 1 voted \$35,000 bonds for new school building. Address Ed Ray, Trustee.*

Va., Bedford—Town voted \$110,000 bonds for new High School building. Address Town Council.*

Va., Charlotte—Courthouse—Charlotte County Board of Education considering erecting training school for colored children; also new high school building at Wylliesburg.

Va., Danville—School Board planning \$450,000 bond election.

Va., Fincastle—Botetourt County Board of Education, E. A. Painter, Supt. of Schools, open bids May 2 for school buildings at Troutville, Buchanan, Eagle Rock, Oriskany and Haymarket; plans and specifications by Division of School Building, State Dept. of Education, Richmond.

Va., Richmond—Charles M. Robinson, Inc., Archts., Travelers Bldg., advise regarding proposed buildings in science group: "We have made sketches for several buildings; however, orders for working drawings have not been given us as yet; will probably be a few months before first building will be started."*

W. Va., Fairmont—Fairmont School Dist. voted \$940,000 bonds; include erection of senior high, combination grade and high for colored children, annexes to 2 elementary schools; Wm. B. Ittner, Archt., Board of Education Bldg., St. Louis, Mo.; Otis G. Wilson, Supt. of Schools.*

W. Va., Wellsburg—Board of Education call election May 24 on bond issue for \$350,000 High School building.

Stores

Ark., Dermott—H. E. Courtney replace present building with brick structure.

Fla., St. Augustine—J. A. Lew, Water Pk., planning to erect store and apartment building, St. George and Orange Sts.

Ga., Atlanta—George C. Rogers, 70 St. Augustine Pl., erect \$10,000, 1-story, brick and cement block store building at 2161-65 DeKalb Ave.

Ga., Atlanta—Massell Realty Co., 43½ Peachtree St., erect \$30,000, 1-story and basement store building at 536-44 Spring St.

Ga., Atlanta—A. H. Harper, 110 Springdale Rd., erect \$10,000, 1-story, brick store, 933-39 Oak St., S. W.

Md., Baltimore—Hecht Brothers, Malcolm Hecht, Treas., Baltimore and Pine Sts., receive bids until May 2 (extended date), for 6-story and basement, reinforced concrete, \$750,000 store and warehouse addition; concrete floors and foundation, built-up roof, 122-ft. frontage on Baltimore St. running back 176 ft. to Redwood St., where front will be 232 ft.; Abbott Merkt & Co., Archts.-Engrs., 175 Fifth Ave., New York; Smith & May, Const. Archts., Calvert Bldg.; following contractors estimating on work: M. A. Long Co., 10 W. Chase St.; J. Henry Miller, Eutaw and Franklin Sts.; Consolidated Engineering Co., 20 E. Franklin St.; Frairie Bros. & Haigley, 19 W. Franklin St.; George A. Fuller

Co., Munsey Bldg., Washington; and Turner Construction Co., 244 Madison Ave., New York.*

Mo., Nevada—Walter Colegrove erect new business building.

N. C., New Bern—Alfred A. Kafer will rebuild \$30,000, 3-story, brick, 72x108-ft., 4-story building recently burned; hardwood floors, concrete foundation. See Want Section—Building Materials and Equipment.*

Okla., Blackwell—A. B. Bissell plans to erect grocery store in Enlow addition.

Tenn., Trenton—Freed Brothers will remodel Star Theatre building for business house.

Tex., Brownsville—Aziz Brothers soon call for bids on \$40,000, 2-story store and office building; brick walls, cement and wood floors, built-up roof; Page Brothers, Archts., Austin Natl. Bank Bldg., Austin.

Tex., Corpus Christi—Sam Grossman, 916 Furman Ave., purchased property in 600 block Chaparral St., will remodel present building.

Tex., Dallas—H. C. Eller, of Dallas Trust and Savings Bank, remodel storeroom at 1924 Elm St., leased to Ben Utay and Morris Levine.

Tex., Harlingen—Mrs. Capitola Smith let contract to Meriweather & Sauer, at \$19,700, for 2-story building, garage and stores on first floor, offices and apartments above; R. W. Mulhausen & Co., Archts.

Tex., Laredo—J. A. Valls have completed plans May 20 by John Marriott, Frost Bldg., San Antonio, for 2-story, fireproof store and office building.

Tex., San Antonio—P. H. Cassiano erect \$11,450, 3-room store and garage, N. Flores St.

Tex., San Antonio—D. Polunsky, 501 Dakota St., soon receive bids for 1-story, 40x60 ft., concrete, brick and hollow tile store building, Nebraska and Iowa Sts.; Beverly W. Spillman, Archt., Alamo Bank Bldg.

Tex., San Antonio—A. B. Phelps, care A. B. C. Garage, opened bids for erecting 1-story, 62x105 ft. store building at Denver and Hackberry Sts.; E. W. Frischmuth, Moon St., low bidder at \$20,000; concrete foundation, brick, hollow tile, stucco, cast stone; Adams & Adams, Archts., Builders Exchange Bldg.*

Tex., San Antonio—Blas Catalina, A. McFarland and others, 1012 W. Commerce St., purchased site at San Pedro Ave. and Warren St., construct \$60,000, 3-story, brick, stone, concrete and tile community center store building; Emmett T. Jackson, Archt., Builders Exchange Bldg.

Tex., Wichita Falls—Milo Connelley erect \$28,000 business building at 1101 Indiana St.

W. Va., Morgantown—A. J. Garlow, Pres. Second Natl. Bank, and Strand Theater Co., owners of property destroyed in \$2,000,000 fire, announced plans for immediate rebuilding.

W. Va., Morgantown—A. J. Garlow, Pres., Second National Bank, plans to soon let contract for rebuilding store and office building recently burned; steel, brick and stone, 130x120 ft., cement and stone foundation. See Want Section—Building Materials and Equipment.*

Theaters

Ala., Birmingham—John Patton of Patton-Pone Drug Co., 2022 Second Ave., will erect \$35,000 theater and store building.

Ark., Bentonville—Harry Kelly, Huntsville, purchased lot on W. 12th St.; plans to erect 110x42-ft. brick theater building.

Fla., Daytona Beach—Public Theaters

Corp., Sam Katz, Pres., 8 Ribault Ave., reported planning to erect new theater building.

La., Minden—Rollin Williams, Mgr. of Minden Amusement Co., announced negotiations under way for constructing new theatre building; seating capacity 600, cooling and steam heating system, drinking fountains, etc.

La., New Orleans—R. J. Brunet, 636 N. Carrollton Ave., owner of Imperial Theatre at 814 N. Hagan Ave., contemplates enlarging.

Mo., Kansas City—J. C. Rader plans to enlarge Strand Theater building, N. W. cor. 36th St. and Troost Ave., work to start June 1st.

Okla., Picher—J. D. Wineland, owner of Winter Garden Theater, on E. Second St., will remodel; \$50,000, seating capacity 1500.

Tex., Amarillo—Dr. C. W. McFarling and A. W. Phillips, Tulsa, purchased site for \$18,000, 1-story, 40x90 ft., brick theater building.

Tex., Big Spring—R. & R. Theaters Co., Yuell Robb, local Mgr., purchased lot 50x140 ft. at Main and Fourth Sts. as site for theater building.

Tex., Harlingen—McAllen Theatres Co., Inc., Louis L. Dent, Dallas Country Club, Dallas, and L. J. Mason, McAllen, reported has secured sites in Harlingen and Weslaco for theater buildings; cost \$100,000 and \$50,000.

Tex., Kermit—H. W. Elliott, Lubbock, reported, planning to erect theater and drug store in Wink.

Va., Richmond—John Ebersson, Archt., 200 West 57th St., New York, advises regarding proposed theater building at N. E. cor. Sixth and Grace Sts. for Loew's Incorporated, 1540 Broadway, New York: "Plans now being issued, bids due May 12," seating capacity 2500, estimated cost \$800,000."*

Warehouses

Fla., Jacksonville—John H. Ek, 311 E. First St., and associates will erect \$25,000 warehouse at S. W. cor. 14th and Liberty Sts. for use by B. F. Goodrich Rubber Co., B. W. Cotton, Mgr. southeastern division, 500 Stewart Ave., S. W., Atlanta, Ga.

Fla., Jacksonville—C. E. Hillyer, Florida Baptist Bldg., erect \$20,000, 1-story, brick, tile and stucco warehouse, Railroad Ave.

Fla., Tampa—Haines, Jones and Cadbury Co., J. Harvey Barton, Pres., 101 Marion St., Tampa, and 1136 Ridge Ave., Philadelphia, Pa., plans erecting warehouse and office building. See Construction News—Miscellaneous Enterprises.

Fla., Tampa—Mrs. D. S. Fisher, 106 Buffalo St., erect \$14,000 warehouse on Florida St.

Md., Baltimore—American Stores Co., 610 Forrest St., start work at once on \$120,000, 100x125-ft., 5-story and basement warehouse, N. E. cor. Lafayette Ave. and Smallwood St.; excavating contract to Potts & Callahan, Knickerbocker Bldg.; A. B. Kister, Engr., 1204 Chancellor St., Philadelphia, Pa.

Mo., St. Louis—Will Levy, Archt., 625 Locust St., prepared plans for wholesale florists' building, to be erected on La Salle St. west of Ohio Ave., for Wholesale Florists Realty Co.; 2 stories and basement, brick and concrete, semi-fireproof, 263x110 ft.

Tenn., Jefferson City—W. W. White, Pres., Civitan Club, planning construction of \$15,000 tobacco warehouse.

Tex., Port Arthur—G. H. Barnes soon receive bids for brick, hollow tile, reinforced concrete, 1-story, 40x140 ft. warehouse.

BUILDING CONTRACTS AWARDED

Association and Fraternal

La., Alexandria—Masonic Benevolent Assn., S. R. Pickett, Sec., 108 Fourth St., let contract for \$225,000 Masonic Temple, Fourth and Johnson Sts., to Caldwell Bros., 816 Howard Ave., New Orleans; brick, stone, steel and concrete, 4 stories, fireproof; Sam Stone, Jr., & Co., Archts., Masonic Temple Bldg., New Orleans; Herman J. Duncan, Asso. Archt., 120 Murray St.*

Tenn., Memphis—Memphis Elevator Co., 268 Union St., has \$35,000 permit for 3 elevators for \$850,000 Elks Club, Front St. and Jefferson Ave., nearing completion; Geo. Mahan, Jr., American Bank Bldg., and J. J. Broadwell, Cotton Exchange Bldg., Archts.; H. J. Gilbertson Construction Co., Contr., Graham Bldg.*

Bank and Office

Fla., Tampa—Franz Safe & Lock Co., Jacksonville (Tampa branch, 121-23 S. Franklin

St.), has contract at \$20,000 for vaults for First National Bank; Tampa Showcase & Fixture Co., 300 S. Rome St., has fixture and general remodeling contract; total cost \$100,000.*

La., Shreveport—Shreveport Mutual Building Assn., McNeill Bldg., let contract at \$43,786 to Tom Green, Ward Bldg., for fireproof office addition; 2 stories, 40x50 ft., concrete floors and foundation, built-up tar and gravel roof; H. E. Schwartz, Archt., Slattery Bldg.*

N. C., Durham—First National Co. let contract at \$71,060 to Geo. W. Kane, F. N. Trust Bldg., for 5-story office building, Chapel Hill St.; Indiana limestone front, steel and concrete; elevator; G. W. Carr, Archt., Forest Hill.*

Okla., Wewoka—E. C. Aldridge let contract to Cowen Bros. for \$125,000 store and office building; brick, stone and concrete, 3 stories and basement, 50x133 ft.; A. C. Davis & Son, Archts., Shawnee.*

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tenn., Memphis—Falls Investment Co., 612 Falls Bldg., let contract to Ferguson Construction Co. for additional story to Falls Bldg.; cost \$35,000; Pfeil & Awsumb, Archts., Derron Bldg.*

Tex., Wichita Falls—W. B. Hamilton, Room 718 Hamilton Bldg., erect 2 additional stories to \$1,250,000 11-story Hamilton Bldg., nearly completed; additional stories for occupancy by Wichita Club; Bryan & Sharp, Archts., Athletic Bldg., Dallas; Jim Harrison, Contr.*

Va., Tappahannock—Southside Bank alter and erect additions to building; cost about \$50,000; John T. Wilson Co., Inc., Mutual Bldg., Richmond.

Churches

Ala., Tuscaloosa—Bethel Baptist Church, colored, Rev. T. B. McClellan, Pastor, started work on \$30,000 building, 20th St. and 27th Ave.

Ark., Camden—First Christian Church let contract to R. N. Reynolds for \$20,000 building, Harrison and Van Buren Sts.

Ark., Trumann—Christian Church completed foundation for \$12,000 building, W. Main St.; brick, 2 stories, 81x45 ft., hardwood floors, composition roof; E. J. Wolpert, Archt., 304½ Main St., Jonesboro. Address Rev. Ira Kirk, Pastor, Jonesboro.*

Fla., Leesburg—Main Street Baptist Church erecting cement block, frame and stucco building by day labor; metal lath, 2 stories, 50x70 ft., concrete and wood floors, 7-ply built-up roof; Alan J. MacDonough, Archt., Eustis; W. M. Trunnell, Constr. Supervisor.*

Md., Baltimore—St. Dominics R. C. Church, Rev. J. B. Manley, Pastor, erect \$20,000 church, Harford Rd. and Chesterfield Ave.; 1 story, 49x114 ft., brick, slag roof, steam heat; Alfred C. Leach, Archt., 411 N. Charles St.; owner builds.

Mo., Piedmont—Methodist Episcopal Church, South, Rev. C. R. Baker, Pastor, started work on \$10,000 building; concrete and stucco, steel beams, 2 stories, 67.6x82 ft., pine floors, concrete foundation, composition shingle roof; furnishings, equipment, etc., \$2000; plans and construction by Mr. Baker. See Want Section—Building Materials and Equipment.*

Mo., St. Louis—Bethel Temple, Jefferson and Palm Sts., completed footings for \$20,000 basement unit of church, Jefferson and Palm Sts. rubble stone, 1 story, 50x100 ft., Granitoid floors, concrete foundation, tar and gravel roof; A. Meyer, Archt., Central Natl. Bank Bldg.; J. A. Rochwhite, Contr., 7005 Forsythe St., Clayton.*

Mo., St. Louis—Fifth Church of Christ, Scientist, W. H. Clarkson, Chmn. Bldg. Comm., 3630 S. Grand Blvd., erect \$150,000 superstructure; 68x120 ft.; auditorium seat 750; basement completed; original plans by N. Torbitt; Wedemeyer & Nelson, Conslt. Archts., Wainwright Bldg.; Dickie Construction Co., Contr., Syndicate Trust Bldg.

Mo., St. Louis—J. Sheehan Plumbing Co., 1009 Olive St., has plumbing contract for \$425,000 six-story unit of \$900,000 Bishop Tuttle Memorial Bldg., Locust St., for Christ Church Cathedral; Jamieson & Spearl, Archts., Arcade Bldg.; W. J. Knight & Co., Conslt. Engrs., 904 Wainwright Bldg.; Gamble Construction Co., Contr., 620 Chestnut St.*

N. C., Proximity, Greensboro—Fiske-Carter Construction Co., White Oak, N. C., has contract for brick veneer church.

S. C., Spartanburg—Waldrup Heating and Plumbing Co., Rock Hill, has vapor heating and plumbing contract for \$110,000 First Baptist Church Sunday school; steel windows, David Lupton's Sons Co., Alleghany Ave. and Tulip St., Philadelphia, Pa.; millwork, Citizens Lumber Co., 237 Union St., Spartanburg; structure brick, concrete and wood, 2 stories, wood and tile floors, slate roof; pouring concrete footings; J. Frank Collins, Archt., 703 Andrews Bldg., Spartanburg; King Lumber Co., Contr., Charlottesville, Va.*

Tex., Albany—Presbyterian Church, West Second St., Rev. J. A. Owen, Pastor, let contract to C. A. Fuess, 1900 N. St. Paul St., Dallas, for \$10,600 Sunday school.*

Tex., Beaumont—Roberts Avenue Methodist Church erect \$16,500 frame addition; 2 stories, 30x90 ft.; A. Babin & Sons, Archts., 15 Blanchette Bldg.; day labor, Walter Owens, 860 Avenue D, Supervisor; material from A. L. Carter Lumber Co., 1298 Park St.

Tex., Beeville—St. Joseph's R. C. Church, Rev. John J. Lannon, Pastor, let contract for \$40,000 building to Jim Steele, 1106 14th St., and John B. Dozegal, Corpus Christi; frame and stucco, 1 story, 50x124 ft., wood floors, concrete foundation, metal tile roof; W. C.

Stephenson, Archt., Room 6 Kilpstone Bldg.; metal roofing, Jim Applewhite; painting, E. G. Dewees; plumbing, Burrows Hardware Co.*

Tex., Brownsville—W. H. Putegant has plumbing contract at \$1597 and wiring at \$2337 for \$60,000 First Presbyterian Church; Kelwood Co., Archts., Travis Bldg.; San Antonio Construction Co., Contr., 906 Builders Exchange Bldg., both San Antonio.*

Tex., Center—First Methodist Church let contract to N. O. Thomas Construction Co. for \$50,000 building; brick, hollow tile and stone, 3 stories, 106x72 ft., seat 800; Wm. C. Meador, Archt., Dan Waggoner Bldg., Fort Worth.*

Tex., Electra—Church of Christ let contract at \$26,500 to A. H. Krause, Frederick, Okla., for brick building; 2 stories and basement, 40x80 ft., concrete and oak floors; auditorium and balcony seat 600; 10 classrooms in basement; Harris H. Roberts, Archt., 453 Harvey-Snyder Bldg., Wichita Falls.*

Tex., Fort Worth—Highland Park Church of Christ erecting \$10,000 building; brick veneer, 3 rooms; J. M. Bradshaw, Contr.

Tex., Harlingen—First Baptist Church, Rev. W. W. Lee, Pastor, let contract to J. B. Moore for \$75,000 church and Sunday school; face brick, steel frame, 1 story and balcony and 3 stories, wood floors and roof constr., mechanical ventilation; Ferrand & Fitch, Archts., 701 Slaughter Bldg., Dallas.*

Tex., Houston—Church of the Nazarene, Rev. J. E. Moore, Pastor, Abbott and Barnes Sts., let contract to J. W. Brown for \$40,000 building, 46 Waugh Drive; brick, cast stone trim, 2 stories and basement, seat 1500; Thiel & Maddrey, Archts.; parsonage, 2-story nursery.*

Tex., La Feria—Methodist Church let contract for Spanish-type parsonage to V. C. Speis; 2 stories; R. W. Mulhausen & Co., Archts., Harlingen.

City and County

Ala., Birmingham—Connors Steel Co., 1007 Empire Bldg., has reinforcing steel contract for \$100,000 Juvenile Detention Home; struct. steel and misc. iron, Ingalls Iron Works, 720 Avenue D; cit stone, Reed Bros., 300 N. Eighth Ave.; tile and terrazzo, S. S. Parker, 2224 S. Seventh Ave.; plastering, Epperly Plastering Co., 409 N. 24th St.; sheet metal work, Geo. F. Wheelock Co., 2313 Avenue E; metal columns and pilasters, H. L. Gwin, Age-Herald Bldg.; painting, Cox & Cardin; elevators, Bagby Elevator Co., 121 S. 20th St.; Harry B. Wheelock, Archt., Steiner Bldg.; Day & Sachs, Contrs., 2400 Avenue E.*

Fla., Miami—American Electric Co. has contract at \$39,800 for electrical fixtures for \$350,000 Dade County courthouse nearing completion; A. Ten Eyck Brown, Archt., August Geiger, Asso. Archt., both 1007-08 Hippodrome Bldg., Miami, and Forsyth Bldg., Atlanta, Ga.; L. W. Hancock, Contr., Louisville Trust Bldg., Louisville, Ky., and 634 N. W. Seventh St., Miami.*

Fla., St. Petersburg—City Commission let contract at \$20,004 to M. B. Welsh, Inc., for covered roque court building.

Miss., Pass Christian—City let contract for \$15,000 amusement pier and pavilion, Davis Ave., to John T. McDonald & Sons, St. Louis and Clarence Sts.; frame, 1 story, 70x40 ft., maple floors, piling, Johns-Manville roof; Smith & Norwood, Archts., 1407 Twenty-sixth Ave., Gulfport.*

S. C., Orangeburg—Orangeburg County Board of Commrs. let contract at \$135,900 to W. A. Cray & Son, 1226 Sumter St., for fireproof courthouse, about 85x145 ft.; J. B. Urquhart, Archt., 605 Palmetto Bldg., both Columbia.*

Tex., Wichita Falls—Volland Scenic Co., 3737 Cass St., St. Louis, Mo., have contract at \$28,500 for stage scenery for \$400,000 municipal auditorium under construction; Voelcker & Dixon, Archts., 4 Kahn Bldg., Wichita Falls; Lang & Wittchell, Asso. Archts., 300 Amer. Exchange Nat. Bank, Dallas; Joe E. Morgan, Contr., 1601 McKenzie Ave., El Paso.*

Dwellings

Ala., Birmingham—W. S. Reeves & Son erect 2 dwellings, Grant St., and 1, Bee Line Highway; day labor.

Ala., Hollywood—A. J. Preslar, care Doster-Northington Drug Co., let contract at \$11,936 to Noblinger & Hooks, R. F. D. No. 1, Box No. 5, for brick veneer residence; 1 story, 47x52 ft., oak floors, tile terraces, concrete foundation, composition shingle roof; Turner & McPherson, Archts., 1203-05 Amer. Trust Bldg., all Birmingham.*

Ala., Opelika—Chas. M. Jernigan started work on residence, N. Eighth St.; buff brick, steam heat, 1 story; Opelika Lumber and Construction Co., Contrs.

Ark., Berryville—Price Kendall, John Champlin and H. A. Schoepel each erecting residence.

Fla., Clermont—Methodist Church started work on parsonage, Broome St.; A. P. Gibson, Constr. Supervisor.

Fla., Coral Gables, Miami—George E. Batcheller, Inc., Laidlaw Bldg., completed foundations for 7 dwellings, Bianca and Perugia Sts.; 2 stories, garages.

Fla., Coral Gables, Miami—John Murrell, Granada Blvd., erect \$75,000 Spanish-type residence, Avenue Ferdinand; 2 stories; patio swimming pool, servants' quarters; A. L. Klingbell, Archt.; George E. Batcheller, Inc., Contrs., Laidlan Bldg.

Fla., Miami—N. S. Songer, 1848 S. W. 11th Terrace, started work on \$12,000 residence, S. W. 11th Terrace near 18th Ave., Shenandoah; 2 stories, 2 baths; John Pierson, Archt., 749 Seybold Bldg.

Fla., Miami Beach—J. A. Macdonald Co., S. Miami Ave., has roofing and sheet-metal work contract for \$100,000 residence for Geo. B. Sanchez, Star Island; millwork, A. H. Ramsay & Sons, Inc., 71 N. W. 11th Terrace; metal windows, Acme Supply Co., 5128 S. Miami Ave.; electrical work, Harrington Electric Co., 150 N. E. Third St.; plumbing, Alex Orr, Inc., 45 N. W. Third St.; structure Denison interlocking tile, 2 stories, 104x101 ft., tile and wood floors, rein. concrete foundation, tile roof; Frank Wyatt Woods, Archt., Ingraham Bldg.; John B. Orr, Inc., Contrs., 147 N. E. Sixth Ave., all Miami.*

Fla., Sarasota—Wm. J. Burns, care Burns Detective Agency, 165 Broadway, New York, let contract for \$50,000 residence, St. Armand's Key, to Hines & Humphreys; Thos. R. Martin, Archt., 312 Main St.*

Ga., Augusta—Mrs. John W. Herbert erect \$100,000 residence, Johns Rd. and Cumming St.; Scroggs & Ewing, Archts., S. F. C. Bldg.; C. B. Holley, Contr., 808 Milledge Rd.

Ga., Augusta—Geo. A. Sancken, 905 Heard Ave., erect \$25,000 residence, Hill Crest Ave.; Scroggs & Ewing, Archts., S. F. C. Bldg.; Sibert & Robinson, Contrs., 126 Eighth St.

La., New Orleans—Lewis A. Clarry, 1567 N. Derbigny St., erect bungalow, Metairie Heights; also bungalow, Humanity St. near Annette St.

La., New Orleans—Louis Monicou erect 2-story duplex, 8 Fontainebleau Drive; Geo. J. Lupo, Contr., 5404 Hawthorne Place.

La., New Orleans—Hyman Rabinovitz, 740 Poudras St., erect 1-story and basement residence, Versailles Blvd.; tile roof, oak floors, tile work, cast stone; owner builds.

Md., Baltimore—Allan C. Davis, 119 S. Howard St., let contract to J. Raymond Gerwig Co., Inc., 213 St. Paul St., for \$25,000 brick residence, 24 Somerset Rd.; brick, 2½ stories; T. Worth Jamison, Jr., Archt., E. Pleasant St.*

Md., Baltimore—Frederick Road Park Building Co., 2949 Frederick Rd., erect 12 brick dwellings, S. W. cor. Frederick Heights Ave. and Stafford St.; 2 stories, 15x38 ft., steam heat; total cost \$36,000; Stanislaus Russell, Archt., 11 E. Lexington St.; owner builds.

Md., Baltimore—Harlem Building Co., 2546 Edmondson Ave., erect number Colonial dwellings, Calvert St.; 2½ stories, brick, about 35x29 ft., slate roofs, hot-water heat; E. H. Wolf, 3rd, Archt.; owner builds.*

Md., Baltimore—H. C. Shearer erect \$10,000 frame residence, 3713 North Rd.; 2 stories, 25x28 ft., slate roof, steam heat; Younger & Riddle, Archts.-Contrs., 4505 Ethland Ave.

Md., Baltimore—Henry F. Beimschla, 3314 Edmondson Ave., erect brick residence and garage, 604 Winans Way; 1½ stories, 32x42 ft. and 12x20 ft., slate roofs, hot-water heat; Fredk. Thomas, Archt., 726 E. 33rd St.; Alex. Schratke, Contr., 24 W. Hamilton Ave.

Md., Baltimore—Herbert C. Forrester, 20 E. Lexington St., erect 4 brick dwellings, 3003-09 Poplar Terrace; 2 stories, 30x22 ft., steam heat; total cost about \$15,000; Stanislaus Russell, Archt., 11 E. Lexington St.; owner builds.

Md., Baltimore—D. A. Davis, 802 E. Eager St., erect \$10,000 brick residence and garage, Thornhill Rd. near Tilbury Way; 2½ stories, 37x46 ft. and 19x19 ft., slate roofs, hot water heat; H. P. Hopkins, Archt., 347 N. Charles St.; Bell Concrete Construction Co., Contr., 502 E. Eager St.

Md., Baltimore—F. E. Saumenig, 5001 Liberty Heights Ave., erect 6 frame dwellings and garages, 4004-14 Packard Ave.; 1 story, 26x31 ft. and 10x20 ft., shingle roofs, hot water heat; total cost \$15,000; owner builds.

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Md., Baltimore—Geo. Wagandt, 1901 Light St., erect \$28,000 brick residence, Blythwood Rd. near Wyndhurst Ave.; 2½ stories, 55x65 ft., slate roof, vapor heat; Chas. M. Anderson, Archt., 9 E. Pleasant St.; Thos. Hicks & Sons, Contr., 106 W. Madison St.

Md., Baltimore—Roland Hebdon, 4101 Rolland Ave., erect \$12,000 frame residence, 219 Upnor Rd.; 2½ stories, 37x30 ft., slate roof, hot water heat; N. R. Randle, Archt., 3601 Old York Rd.; C. L. Kern, Contr., 612 McCabe Ave.

Mo., Kansas City—H. V. Smith, 63rd and Brookside rd., erect frame residence, 615 W. 59th St.; cost about \$10,000, 2 stories, 42x22 ft.; owner builds.

Mo., Maplewood, St. Louis—Albert Berkel, 6631 Manchester St., erect \$13,000 residence, Gayola and Oakview Sts.; brick, 1 story and basement, 30x50 ft., concrete foundation, asphalt shingle roof, tile bath, hardwood floors, yellow pine trim, hot-air heat; Philip Rollhaus, Jr., Archt., 606 Central Natl. Bank Bldg.; owner builds.

Mo., Normandy—Chas. Mueller & Sons, 3528 Hebert St., have contract for \$12,000 dwelling, Augusta Ave.; brick, 1½ stories and basement, 32x39 ft., hardwood floors, tile bath, poplar trim, Kenerator, hot-water heat; L. J. Graham, Archt., 4885 Natural Bridge Ave.

Mo., Springfield—J. W. Turner, 632 State St., erect \$18,000 residence; brick and tile, 2 stories and basement, 34x28 ft.; Wilbur Thompson, 1211 Roanoke Ave.; G. F. Hentschel, Contr., 776 E. Walnut St.

Mo., St. Louis—Margaret Realty Co., care T. J. Potashnik, 904 Chestnut St., erect \$12,000 dwelling; 2 stories and basement, 31x31 ft., stone foundation, slate roof, tile bath, oak floors, hot-water heat, yellow pine trim; O. J. Popp, Archt., 1501 Arcade Bldg.; owner builds.

Mo., St. Louis—T. Potashnik erect \$12,000 brick residence, 5592 Washington St.; 2 stories, 49x28 ft., slate roof, hot-water heat; Margaret Realty Co., Contr., both 904 Chestnut St.

Mo., St. Louis—L. W. Rubin, 904 Chestnut St., erect \$12,000 brick residence, 6323 Alamo St.; 2 stories, 42x31 ft., slate roof, hot-water heat; O. Popp, Archt., Arcade Bldg.; P. Rubin, Contr., 904 Chestnut St.

Mo., St. Louis—Bernard T. Kearns, 3109 Allen St., let contract for \$40,000 residence, Moorlands Place to Schroeder-Gruenich Construction Co., 3111 N. Grand Blvd.; brick, 2 stories, hardwood floors, rock foundation, slate roof; A. B. M. Corrubia, Archt., 1373 Arcade Bldg.; plumbing, Collins Bros., 4742 McPherson St.*

Mo., St. Louis—K. Anderson, 3964 Olive St., erect \$20,000 office building, 4936 Enright St.; brick, 2 stories, 54x56 ft., composition roof; C. H. Wray, Archt., Rialto Bldg.; owner builds.

N. C., High Point—Dr. N. H. Crews, 154 S. Main St., erect \$12,000 residence; 2 stories 9 rooms brick; J. O. Connor Contr., 316 Washington St.

N. C., Mount Airy—J. F. Yokley, Pine St., let contract to C. B. Tilley for \$15,000 residence; stucco, 2 stories, oak floors, concrete foundation, tile roof; C. G. Humphreys Co., Archts., Gilmer Bldg., Winston, Salem.

Okla., Enid—T. F. Mefford, Bldr., erect \$18,000 dwelling, connection with development, Kiser Heights.

Okla., Oklahoma City—United Clay Products Corp., 218 N. Harvey St., has brick contract for \$25,000 residence for Jas. Brazell, 503½ E. 12th St.; Harry Reynolds, Archt., Terminal Arcade; Smiser Construction Co., Contr., 613 N. Hudson St.*

Tenn., Jackson—Alburn & Webb, Contrs., started work on \$10,000 dwelling, Market and Lafayette Sts.; brick veneer, 1 story and basement, 38x58 ft., composition shingle roof, oak floors, tile bath, hot-air heat, frame garage; L. W. Farham, Archt., 586 Hays St.

Tenn., Knoxville—E. C. Brown, Fifth Ave. F. C., erect \$13,000 residence, Towanda Trail, Shawnee Wood; frame, 2 stories, 9 rooms; Peckinbaugh Construction Co. Contr., Island Home Pk.

Tenn., Memphis—Frank Gilliland, Fidelity Bank Bldg., let contract to W. C. Owen, Dermon Bldg., for \$15,000 residence, Red Acres; Stonekote 2 stories and basement, 40x79 ft., wood shingle roof oak floors, tile bath; Hubert T. McGee, Archt., 801 Fidelity Bank Bldg.; hot water heating, Ideal Heating Co., 761 Madison Ave.; plumbing, Prichard Brothers Plumbing Co., 433 Madison Ave.; wiring, McCrory Electric Co., 63 S. Third St.*

Tenn., Memphis—Walter McDonald, 115 Monroe Ave., erect \$17,000 residence, Perkins Ave.; brick veneer and stone, 1 story and basement, 105x45 ft., composition shingle roof,

oak floors, tile bath, hot water heat, frame arage; Estes W. Mann, 203 Cotton Exchange Bldg.; L. L. Diehl, Contr., 1663 Forrest St.

Tenn., Memphis—B. E. Berry, 201 Fidelity Bank Bldg., erect 3 brick veneer dwellings, 914-22-30 N. Garland St.; 1 story and basement, 26x55 ft., composition shingle roof, oak floors, tile work in baths, hot-water heat, frame garages; Geo. H. Boyle, Contr., Highland Ave.

Tenn., Memphis—H. C. Cheers, 884 Adams Ave., erect frame and stucco residence, Gallo-way Park; 2 stories and basement, 81x37 ft., shingle roof, oak floors, tile work in bath; Jones & Furbinger, Archts., 110 Porter Bldg.; bids in.

Tenn., Nashville—Stanley Vail, care Donald W. Southgate, Stahlman Bldg., erect brick veneer residence, Belle Meade Park; 1 story, basement and attic, 50x58 ft.; A. M. Watson, Contr., 4307 Nebraska Ave.

Tenn., Nashville—O. F. Vasher erect 3 brick veneer dwellings, 2018 Barton Ave. and 2000-04 S. 28th Ave., 1 story and basement, asbestos composition shingle roof, wood floors, warm air heat; total cost \$15,000; owner builds.

Tex., Galveston—Jos. Kane, 3514 M. St., erect frame residence and garage; 2 stories; R. R. Rapp, Archt., 417 Security Bldg.; Wm. L. Kothe, Contr., 918 H St.

Tex., Houston—Porter Lindsley started work on \$25,000 residence, Nakoma Drive, Greenway Park; Oklahoma natural stone and stucco, 8 rooms, 2 baths, slate roof and terrace, hot-water heat.

Tex., Greenville—Philip Salter erect 6-room residence, McDougal St.; Lindsey & Kilmer, Archts.; Joe Inabinette, Contr.

Tex., Houston—W. C. Streeter, 6734 Avenue R, has contracts for two 5-room dwellings, Myrtle St., Pecan Park; work started.

Tex., Lindsay—Catholic Church erecting \$10,000 home for sisters. Address The Pastor.

Tex., Ozona—Rob Miller let contract to J. Vaughan for residence; work under way; face brick and hollow tile, oak floors, Johns-Manville asbestos shingle roof, metal lath and studs, warm-air heat, Oil-O-Matic burner; Swartz & Hamberlin, Archts., San Angelo.*

Tex., Port Arthur—B. R. Schultz, 320 Seventh St., started work on brick veneer residence, Delmar; Peter Bos, Contr.

Tex., San Antonio—W. P. Napier, Travis Bldg., erect \$25,000 residence, Terrell Rd.; concrete foundation, brick veneer, 2 stories; John Hagy, Contr., 823 Lakeview Ave.

Tex., San Antonio—J. J. Stevens, Jr., Fredericksburg Rd., erect \$25,000 residence, Greenwood and McCullough Sts.; Robt. McGarrough, Archt-Contr., 3421 N. New Braunfels St.

Tex., Sherman—Mrs. Geo. Hardwicke erect \$16,000 residence, W. Washington St., English type, brick veneer, slate roof, 10 rooms, 2 baths, built-in fixtures, oil-burning, hot-air heat Clyde & Rolfe, Archts.; Roy Wentzer, Contr.

Va., Danville—Ben Temple Land Co., Masonic Bldg., erecting 3 dwellings, Forest Hills.

Government and State

W. Va., Alderson—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., let contract at about \$604,000 to A. C. Samford, Shepherd Bldg., Montgomery, Ala., for second unit of building at Federal Industrial Institution for Women; low bid on mechanical work, including heating, plumbing, lighting inside 19 buildings and underground steam, water and sewer work, and electrical service to bldgs., at about \$160,000 to Virginia Engineering Co., Inc., First Natl. Bank Bldg., Newport News, Va.*

Hospitals, Sanitariums, Etc.

Ala., Montgomery—Price Heating Co., 1248 S. Court St., has heating contract for \$59,000 nurses' home, Montgomery Memorial Hospital; electrical work, Reeves Electric Co., 40 Commerce St.; plumbing, Williams Plumbing Co., 112 Jefferson St.; brick, 2 stories, wood floors, concrete and brick foundation, built-up composition roof; Okel & Cooper, Archt., Bell Bldg.; Hugger Brothers Construction Co., Contr., Shepherd Bldg.*

La., Baton Rouge—W. C. Joubert, 317 Main St., has contract at \$3010 for electrical work at tuberculosis hospital, Greenwell Springs; refrigerating equipment, Rantz Engineering Co., 4120 S. Carrollton St., New Orleans, \$2576; heating and plumbing, American Heating & Plumbing Co., 829 Baronne St., \$5179; all New Orleans; water tank and tower, Chicago Bridge & Iron Works, Old Colony Bldg.,

Chicago, \$2974; Favrot & Livaudais, Ltd., Archts., Hibernia Bldg., New Orleans.

Okla., Oklahoma City—Sisters of Mercy let contract at \$105,000 to Peltier & Fitzgibbons for addition to St. Anthony's Hospital; heating and plumbing, Cook-McDonnell Co., 416 N. Walker St., at \$17,000; wiring in gen. contract; brick, stone and reln. concrete, 3 stores and basement, 41x139 ft., 60 private rooms; Monnot & Reid, Archts., Magnolia Bldg.*

Hotels and Apartments

Ga., Americus—W. E. Mitchell let contract to S. S. Kent & Son for renovating and modernizing Sumter Hotel, \$19,000; new steam heating plant, additional baths.

Ky., Ashland—Henry Clay Hotel Co., W. A. Ginn, Chmn., Executive Committee, reported let contract to Rust Engineering Co., 311 Ross St., Pittsburgh, Pa., for \$500,000, 8-story, 101x143.6 ft., fireproof hotel building, Winchester Ave. and 18th St.; equipment and furnishings cost \$105,000; contract for excavation for foundation and basement let to Hunt-Forbes Co.; Moosmiller & Johnson, Archts., 40 Kenyon Bldg., Louisville.*

La., New Orleans—George J. Glover Co., Inc., Whitney Bldg., let following sub-contracts on \$1,500,000, 14-story, fireproof, 300-room addition to Monteleon Hotel: Electric work, New Orleans Public Service, Inc., Baronne and Common Sts.; glass and glazing, Pittsburgh Plate Glass Co., 314 Girod St.; hardware, Gibbons & Gordon, Inc., 532 Canal St.; nails, C. T. Patterson Co., Inc., 800 S. Peters St.; plumbing, Robinson Brothers, Pine Bluff, Ark.; structural steel, Lukens Erecting Co., Poland and Rocheblave Sts.; mail chutes, Cutler Mail Chute Co., Rochester, N. Y.; tile work, Gianoli Co., 19 Houston St., Atlanta, Ga.; waterproofing, D. S. Melvin, Whitney Bldg.; furnishing terra cotta, Atlanta Terra Cotta Co., represented by Ole K. Olsen, 822 Perdido St.; marble work, A. Weiblen Marble & Granite Co., 521 City Park Ave.; millwork, National Sash & Door Co., 600 N. Dupre St.; ornamental and miscellaneous iron, Decatur Iron & Steel Co., Albany, Ala.; Wogan & Bernard, Archts., Title-Guarantee Bldg.*

La., New Orleans—George Steele let contract to C. E. Ammen, 350 Lowerline St., for \$60,000 2-story apartment building, Cohn and Spruce Sts.; Walter Cook Keenan, Archt., Liverpool & London & Globe Bldg.

La., Shreveport—Jefferson Hotel, Floyd R. Hodges, Jr., Pres. of company, let contract to Gilman McConnell, 285 Wilkinson St., for fourth floor annex; 55 additional rooms, remodel front, enlarge kitchen, new elevator; \$60,000, new furniture cost \$25,000.

Md., Baltimore—Mar Vern Apartment Corp., let contract to H. M. Reinhart, Calvert Bldg., for \$75,000, 4-story, 40x115 ft., 24-apartment building, Charles St. north of 32nd St.; Frederick E. Beall, Archt., 306 St. Paul St.*

Miss., Mississippi City—R. E. Johnson let contract to John Brady for apartment house at Maywood Court; Vinson Smith, Jr., Archt.

Miss., Monticello—Mr. and Mrs. R. O. Edwards, owners of Watts' Hotel, let contract for 2-story, brick, 22-room hotel building; steam heat, baths, running water; Mr. David, Contr., care Henry Runyon, Archt., Brookhaven.

Mo., St. Louis—S. A. Wier, 6023 Etzel St., erect two 3-story, brick, 40x60 ft. tenements, 6066-70 Cates St.; \$60,000, concrete, felt and gravel roofs, steam heat; plans by owner; G. H. Hargitt, Contr., 5332 Vernon St.

Mo., St. Louis—Dr. Arthur H. Winkelmeyer, 2602 S. Grand St., let contract to Schroeder-Gruenich Construction Co., Speedway Bldg., for \$40,000, 3-story, 44x97 ft., brick tenement, 3548 Sidney St.; reinforced concrete roof; J. L. Bowling, Inc., Archts., 1198 Arcade Bldg.*

Mo., St. Louis—W. V. Siegel, 4255 DeTonty St., erect two 2-story, brick, 24x45 ft. tenements, Plateau St.; asphalt shingle roofs, hot air heat; B. J. Darr, Archt., 1014 Oakview Place; owner builds.

N. C., Charlotte—B. F. and R. A. Wellons let contract to Wesley T. Heath Co. for \$170,000, 3-story, hollow tile and face brick, 48-unit bachelor apartment building, N. Church St. between Sixth and Seventh Sts.; B. C. Bonfoey, Archt.

N. C., Greensboro—J. N. Coe, Contr., 306 American Bldg., erect two \$20,000, 2-story, brick veneer apartment houses, S. Mendenhall St. between Walker Ave. and McGee St.; four 4-room apartments, composition roofs.

N. C., Statesville—Messrs. J. M. Deaton & Sons, Fred R. Sills and Oscar Marvin let contract for \$35,000 to \$40,000, 50-room Deaton Apartment building, Walnut and Mulberry Sts.; 122x97 ft., 2 stories, brick

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veneer, 5 apartments on each floor, steam heat.

Tenn., Chattanooga—Lookout Mountain Hotel Co., Paul B. Carter, Pres., announced immediate construction of \$1,450,000 Lookout Mountain Hotel; English archt., 200 guest rooms, writing rooms, dining rooms, kitchen, lobby, ballroom, etc.; central section 5 stories gradually reducing to 2 stories at either end; base to be faced with mountain stone, walls above to be stucco; reinforced concrete construction, roof of tile or asbestos shingles, oak flooring, fireproof; to be operated by J. R. Pound; R. H. Hunt & Co., Archts., James Bldg.; Underwood Contracting Corp., Contrs., Louisiana Bldg., New Orleans, La.*

Tex., Abilene—D. M. Oldham, Jr., let contract to Glenn G. Lawson for 2-story, 50x140 ft., \$60,000 annex to Mobley Hotel building; first floor stores, 30 guest rooms above.*

Tex., Abilene—T. C. Cochran let contract to J. L. Jackson, at \$25,000 for 2-story, 24x120 ft., hollow tile and stucco, 36-room apartment building; private plans.

Tex., Amarillo—Hughes O'Rourke Construction Co., 1913½ Live Oak St., Dallas, pouring footings for \$1,950,000, 17-story and basement, reinforced concrete hotel building, for Alex Davidson and Joe Mandel at Ninth and Tyler Sts.; 140x140 ft., faced with brick and Bedford stone, granite base, 600 rooms, cement, tile and terrazzo floors, tar and gravel roof, equipment and furnishings cost \$600,000; no sub-contracts let; will be operated by Baker Hotel Co., T. B. Baker, Pres., Gunter Hotel, San Antonio; Wyatt C. Hedrick, Archt., First Natl. Bank Bldg., Fort Worth.*

Tex., Big Spring—A. J. Crawford, Carlsbad, New Mexico, let contract to Ramey Bros., First National Bank Bldg., El Paso, for \$175,000 5-story and basement, 48x140 ft., brick, reinforced concrete, hollow tile partitions, cast stone hotel building; Trost & Trost, Archts., Two Republics Bldg., El Paso.* Moreland Hotel, let contract to J. W. Driscoll

Tex., Harlingen—C. S. Moor, Proprietor Moreland Hotel, let contract to J. W. Driscoll for \$200,000, 3-story, brick and tile, 140x100 ft., 100-room hotel building, Van Buren and Second Sts.; 16-ft. arcade will extend entire length of building, entering Van Buren St.; second arcade enter from Second St.; provide spaces for 12 stores and post office; C. A. Rainwater, Archt., McAllen. See Want Section—Bids Asked—Elevator and Refrigeration Plant.*

Tex., Houston—Mrs. E. L. Short started work on \$10,000, 2-story, brick veneer triplex at 2405 Isabella St., in Washington Terrace.

Tex., McAllen—Ben Anthony let contract to McAllen Construction Co., for \$40,000, 2-story, hollow tile and stucco apartment building; A. H. Woolridge, Archt.

Va., Norfolk—Vernon L. Myers let contract to Myers & Myers for \$55,000, 2-story, Spanish type, 20-family apartment building, 35th St. between Colonial and Llewellyn Aves.; buff stucco trimmed with red face brick and Spanish clay tile; plans include 20 garages; Philip B. Moser, Archt., Law Bldg.*

Va., Old Point—Old Point Hotel Corp., Frank W. Darling, Pres., Hampton, start work this week on \$1,250,000, 8-story, 377x130-ft. hotel on site of old Chamberlin; concrete floors and foundation, felt and slag roofing, furnishings and equipment cost \$250,000, vapor heat, 4 elevators; Marcellus E. Wright, Archt.; Wise Granite and Construction Co., Contrs.; both American Natl. Bank Bldg., Richmond. See Want Section—Building Materials and Equipment.*

Va., Richmond—Granby Building Co., erect \$22,000 apartment building at 2068 Rose-neath St.

Va., Richmond—Rosewood Construction Corp., American Natl. Bank Bldg., erect \$25,000 apartment building at 509 N. Mulberry St.

Va., Roanoke—Mrs. A. S. Wright started work on \$75,000, brick with stone trimmings, English-type apartment house on Elm Ave.; 3 stories, 18 apartments, fireproof, Murphy beds, electric refrigerators, electric stoves, incinerators, kitchen cabinets; plans and construction by Eubank & Caldwell, Boxley Bldg.

Miscellaneous

Miss., Cleveland—Cleveland Woman's Club, Mrs. P. B. Woollard, Chmn. Bldg. Comm., let contract to S. R. Davis for clubhouse on Fifth Ave.

Miss., Gulfport—S. L. Bertucci let contract to Zack Bailey, at \$15,367, for 1-story, tile and stucco, 50x100-ft. billiard parlor, 26th Ave.; cement, tile and rubber tile flooring, concrete foundation, built-up roof; Vinson B. Smith, Jr., Archt. See Want Section—Building Materials and Equipment.*

Mo., Kansas City—Brotherhood of Railway Carmen of America, 512 Hall Bldg., let contract to W. H. Hall, 414½ Hall Bldg., to remodel and add 1 story to present building at 107 W. Linwood St.; \$20,000.

Mo., St. Louis—J. Manion, Berthold and Fairmount Sts., let contract to P. F. Smith, 4603 Cleveland St., for \$33,000, 3-story building, 6648 Pakland St.; vapor heat; F. G. Alvis, Archt., 7346 Manchester St.

Railway Stations, Sheds, Etc.

Miss., Jackson—Federal Engineering Co., 3240 S. Michigan Blvd., Chicago, Ill., received contract for heating and plumbing equipment in passenger station of Illinois Central System, A. F. Blaess, Ch. Engr., Chicago; Ellington Miller Co., 417 S. Dearborn St., Chicago, Gen. Contr.*

Miss., Jackson—New Orleans & Great Northern Railroad, J. L. Gould, Supt., Bogalusa, La., let contract to W. J. McGee & Son, Lamar Bldg., for depots at Pearl and Commerce Sts.; composition roofs, metal ceilings; consist of 2-story, brick passenger, 1-story brick freight depots and concrete platform structure.*

Tex., Wills Point—Texas & Pacific Rwy. Co., E. F. Mitchell, Ch. Engr., Dallas, let contract to F. A. Mote, 1509 McCoy St., Dallas, at \$50,000, for brick combination freight and passenger station.*

Schools

Fla., Felda—Hendry County Board of Public Instruction, La Belle, erecting \$50,000 school building.

Fla., Lutz—Hillsborough County Board of Public Instruction, Tampa, let contract to Peter Clausen, 3306 30th Ave., Tampa, at \$21,600, for school building; Frank A. Winn, Jr. Archt., 207½ Twigg St.*

Fla., Ocoee—Orange County Board of Public Instruction, Orlando, let contract to John W. Bryan, 91 N. Hughey St., Orlando, for \$65,000 tile with stucco finish school building; steam heating plant; include assembly hall to accommodate 300 people.

Fla., St. Augustine—State Board of Control, P. K. Yonge, Chmn., Hotel White House, Gainesville, let contract to Grahn Construction Co., 133½ Magnolia Ave., Daytona Beach, at \$20,971, for extension to kitchen of Florida School for the Deaf and Blind; Rudolph Weaver, Archt., 200 Peabody Hall, University of Florida, Gainesville.*

Ky., Canonsburg—Boyd County Board of Education, Catlettsburg, let contract to Davis & Davis; Catlettsburg, at \$4100, for left wing of proposed High School building; contain 2 classrooms, library and office.

Ky., Paducah—McCracken County Board of Education, C. H. Gentry, Supt., let contract to Hester Andrews, at \$16,998, for 2-story, brick, 10-classroom, 185x60 ft., Reidland High School; concrete foundation, Barrett roof; heating and plumbing to Ed D. Hannan, 319 Kentucky Ave., at \$3943; Jamieson & Edgings, Archts., 303 City Natl. Bank Bldg.*

Ky., Pikeville—Board of Education let contract to Landes Construction Co., Inc., Charleston, W. Va., for \$100,000 girls' dormitory building; L. J. Dean, Archt., Simms-Keller Bldg., Huntington, W. Va.

La., Monterey—Concordia Parish School Board, Vidalia, let contract to D. V. Magoun for new auditorium building at High School.

Miss., Columbus—Electric Service Co., Inc., Oak St., Laurel, has contract for plumbing, heating and wiring new laundry, dining room and dormitory, at about \$40,000, at Mississippi State College for Women; will also do wiring, heating and plumbing work on administration building and physical education building when present work is complete; L. W. Hancock, Gen. Contr., 26th Ave.; P. J. Krouse, Archt., M. & W. Bldg., both Meridian.*

Miss., Corinth—Alcorn County Board of Education let contract to J. S. Pinkstin, at \$12,977, for brick, 6-classroom and auditorium Gift Consolidated School building.

Mo., Metz—School Board broke ground for \$30,000 school building for Consolidated School Dist. No. 3; bonds recently voted.*

Okla., Bethany—School Board let contract to Barbour & Short, Oklahoma City, at \$25,000, for classroom building; composition roof, pine floors and finish; Sorey & Vahlberg, Archts., Braniff Bldg., Oklahoma City.*

Okla., Tecumseh—Free Will Baptist College, T. A. Searcy, Pres., rebuilding structure burned; brick, concrete basement, contain 10 classrooms, library, 40x50 ft. auditorium, etc.

S. C., Cedar Spring—Prof. W. L. Walker, Supt. South Carolina School for the Deaf and Blind, let contract to Palmer-Spivey Con-

struction Co., 404 S. Tryon St., Charlotte, at \$34,450, for 45x118 ft., brick Girls' Dormitory building; wood and tile floors, slate roof; steam heating to Waldrop Plumbing & Heating Co., Rock Hill; Edwards & Sayward, Archts., 101 Marietta St., Atlanta, Ga.*

Tenn., Memphis—Board of Education accepted bid of House-Bond Hardware Co., 101 S. Main St., totaling \$7866 for cafeteria equipment of new Junior High School.*

Tex., Hereford—Catholic Church, care Father Salvator, erecting \$12,000, 80x40 ft., 4-classroom and basement school building; J. F. Cunningham, Contr., 504 E. 12th St., Amarillo

Stores

Ark., Gurdon—J. R. Capps let contract to R. W. Bradshaw, Hope, for 2 brick store buildings.

Ark., Ozark—J. S. Turner and Will Hill let contract to Claud Talley for 1-story, brick business building.

Ark., Little Rock—Quapaw Investment Co., John F. Boyle, Boyle Bldg., let contract to Matt M. Bush, Cotton Exchange Bldg., and John Schmeltzer, 410 E. 12th St., for remodeling brick building at 217-21 W. Capitol Ave. into department store; \$75,000.*

Fla., Miami—John Reiner, 24 S. W. 18th Court, started work on 1-story, reinforced concrete and concrete block business building, 38 N. W. 29th St.; 36x60 ft., walls to be built to carry several more stories to be built later.

La., Monroe—T. E. Flourney, Pres. of Ouachita Natl. Bank, let contract to W. C. Salley, for 2-story, 40x100-ft. store building, St. John St.; tile floors, composition roof; J. W. Smith, Archt., Ouachita Natl. Bank Bldg. See Want Section—Building Materials and Equipment.*

La., Bastrop—McBridge Construction Co. has contract for remodeling Scala Building.

Miss., Laurel—B. B. Pollock Store on Front St. let contract to C. E. Cooper for new front and windows; electrical work to Electric Contracting Co.; plate glass, tile and marble to Southern Building Material Co., Meridian; L. W. Duffee, Archt.

Mo., Kansas City—Adler Millinery Co., 1212 Main St., let contract to Miller Stauch Construction Co., 503 Railway Exchange Bldg., for remodeling front and interior and adding elevator at 1208 Main St.; \$15,000.

Mo., St. Louis—Francis Brothers, 5003 Gravois St., let contract to M. C. Bartela, 4910 Gravois St., for \$22,000, 2-story, 50x95 ft., brick stores and tenement, 3801-3½ S. Kingshighway; composition gravel roof, steam heat; A. F. Stauber, Archt., 6032 S. Kingshighway.

N. C., Charlotte—J. A. Jenkins, 2211 E. Seventh St., let contract to J. A. Jones Construction Co., Realty Bldg., for \$10,000 brick store building at S. Boulevard and E. Park Ave.

N. C., Greensboro—John W. Simpson, 515 N. Elm St., let contract to J. N. Coe for \$37,500, 3-story, 6-room store building on S. Greene St.; brick, composition roof.

N. C., King—Fowler-Mitchell Co., Contrs., Pilot Mountain, erecting \$10,000, stone building at Depot and Main Sts.

N. C., Madison—Grover C. Rierison assembling material for brick store building.

N. C., Mount Holly—Louis Kaplan let contract to H. A. Michael for \$20,000 store and apartment building on Main St.

Okla., Ponca City—Je DeWitt let contract to Richard Sherbon for \$45,000 business building; Smith & Senter, Archts., Okmulgee.

S. C., Beaufort—J. I. Washington erecting 2-story, brick veneer store and office building, Port Republic and West Sts.

S. C., Marion—Mrs. J. C. Mace, owner of Mace block recently burned, let contract to Paul Bostwick to rebuild for department store.

Tex., Baytown—C. I. Fortinberry erecting 3 brick store buildings.

Tex., Chillicothe—L. B. and W. T. Wofford erecting 5 store buildings.

Tex., Beaumont—T. L. Posey, Contr., started work on addition of third story to White House Dry Goods Co. building at Pearl and Forsythe Sts., for W. C. Keith, \$60,000; J. C. Beck, Archt., San Jacinto Annex.

Tex., Corpus Christi—R. T. Wood, 716½ Chapparral St., let contract to J. W. Bermingham, 624 Market St., for \$14,000, 50x80 ft., 2-story, concrete and tile store building at 100 Mesquite St.; operated as furniture store by Clint Holomon.

Tex., San Angelo—C. A. Probandt let con-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

tract to A. W. Belfanz & Bro., Abilene, for \$32,000 second story addition and renovation of Angelo Furniture Co. building.

Tex., Sweetwater—G. H. Johnson let contract to Ramey Brothers, First National Bank Bldg., El Paso, at \$25,000, for 2-story, brick and concrete, 100x102 ft. business building; J. R. Bryant, Archt., Box 84.

Tex., Wichita Falls—Sam Kruger and Harry Jaffe let contract to Taylor Brothers for \$10,000, 1-story, fireproof brick building at 1502 Lamar Ave.

Theaters

Fla., Tampa—Rome Construction Co. has permit for \$10,000 theater building, Campobello St.

Fla., West Palm Beach—Ferdinand Kahler, Sec., New Albany, Ind., let contract to Arnold Construction Co. for \$200,000 motion picture theater on First St., adjoining Fagan Arcade; seating capacity 1000; remodel Arcade with entrances on Clematis and First Sts. leading to rotunda of theater; be operated by E. J. Sparks, 317 W. Forsyth

St.; Roy A. Benjamin, Archt., Bisbee Bldg., both Jacksonville.*

La., Baton Rouge—S. T. Hannie erecting \$13,050, 60x110 ft. theater and store building on North Boulevard.

Md., Cumberland—E. K. Magruder let contract to John I. Vandegrift for 2-store room and theater building on N. Mechanic St.; George F. Stansbury, Archt.

Okla., Blackwell—Palace Theater Co. soon start work on New State theater building; furnishings cost \$50,000; C. L. Conley Co., Archts., Omaha, Neb.; Earl Taton, Contr.*

Okla., Crescent—George Graff, care Crescent Milling Co., excavating for \$15,000, 1-story, 50x140 ft. theater building; concrete foundation, composition roof; P. H. Wathers, Archt., 10 N. Broadway, Oklahoma City; owner builds. See West Section—Building Materials and Equipment.*

Warehouses

Tenn., Memphis—F. J. Ozanne & Co., Contrs., 306 Empire Bldg., let following sub-contracts on \$100,000, 3-story and basement.

mill-type, brick, 75x170-ft. machinery warehouse, Front and Vance Sts., for George Hooper Co.; Heating, Hughes Heating Co., 672 Madison St.; plumbing, Pritchard Bros. Plumbing Co., 433 Madison St.; elevators, Warner Elevator Mfg. Co., 269 Adams St.; rolling and elevator doors—Kinnear, etc.—Akers & Co., Fourth St. and Madison Ave.; all wood, lumber and millwork, Lee Lumber Co., Raynor Ave.; steel sash, David Lupton & Sons Co.; reinforcing steel, Pidgeon-Thomas Iron Co., N. Second St.; masonry work, Carter B. Lyons, Builders Exchange; cast stone, Leob Stone Co., S. Bellevue St.; natural cut stone, Central Cut Stone Co., 750 S. Cox St.; roofing, Bartholomew Roofing Co., S. Second St.; glass and glazing, Binswanger & Co., Union Ave.; excavation, George W. Turner Co., 280 Ayers St.; painting, A. Fabra, 1320 Driver St.; Jones & Furbringer, Archts., Porter Bldg.*

Tex., Beaumont—Jefferson Drug Co., care O. B. Sawyer, 381 College St., let contract to Christy-Dolph Construction Co., Central Bldg., Dallas, at \$89,895, for 3-story 100x120 ft., brick, tile, reinforced concrete, fireproof business building; A. Babin, Archt., Blanchette Estate Bldg.*

THE CLASSIFICATIONS IN THIS SECTION ARE:

WANT SECTION

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Machinery and Supplies

Alternator, etc.—L. R. Camp, Engr., 701 American Trust Bldg., Birmingham, Ala.—Wants second-hand 175-200 kw., 3 phase, 60 cycle, 550 volt belted alternator with exciter and switchboard equipment.

Bakery Plant Equipment.—Macry-Southern Baking Co., 1512 Lavaca St., Austin, Tex.—Wants prices on dough mixer and ovens.

Blackboards (Natural Slate).—Virginia Building Material Co., Inc., 203 Sauer Bldg., Richmond, Va.—Wants data on natural slate blackboards.

Boiler (Canners).—H. S. Pickering, Gen. Mgr., Everglades Canning Corp., 60 E. Sixth St., Hialeah, Fla.—Wants prices on canners boiler for vegetable canning and fruit preserving plant.

Camp Outfits.—W. S. Kilby, Supt., United Fuel Gas Co., 814 Fourth Ave., Huntington, W. Va.—Is constructing gas pipe line from Martin, Floyd County, Ky. to Kenova, W. Va., and wants camp outfits.

Canning and Preserving Machinery.—J. E. Hellams, Fayetteville, Ark.—Wants catalogs and prices on canning and preserving machinery, for strawberries, grapes, etc.; new or used equipment.

Canning Plant Machinery and Equipment.—H. S. Pickering, Gen. Mgr., Everglades Canning Corp., 60 E. Sixth St., Hialeah, Fla.—Wants prices on full layout of canning machinery for vegetables and preserving equipment for fruits.

Cans, Bottles and Jars.—H. S. Pickering, Gen. Mgr., Everglades Canning Corp., 60 E. Sixth St., Hialeah, Fla.—Wants cans, bottles and jars for vegetable canning and fruit preserving plant.

Cartons, Boxes, etc.—H. S. Pickering, Gen. Mgr., Everglades Canning Corp., 60 E. Sixth St., Hialeah, Fla.—Wants prices on following for vegetable canning and fruit preserving plant:

- (1) Cartons.
- (2) Boxes.
- (3) Labels.
- (4) Caps.

Combination Woodworker.—See Woodworking Tools.

Containers (Glass and Tin).—J. E. Hellams, Fayetteville, Ark.—Wants catalogs and prices on tin and glass containers, cases, etc. for preserves, jellies, canned goods, etc.

Crusher (Talc) and Grinding Mill.—Redmon and Silvers, Marshall, N. C.—Wants crusher and mill to grind talc, prefer air float mill, capacity 15 to 20 tons per 10 hrs. (have electric power), consider good second-hand equipment.

Disinfectant.—Charles H. Barnes, Mgr., the First National Bldg. Corp., St. Augustine

Fla.—Wants data and prices on disinfectants.

Dredging Machine.—Friend & Co., Inc., T. White, Pres., River St., Petersburg, Va.—Wants one second-hand ladder-type dredge for dredging sand and gravel, capacity about 500 tons daily.

Dry Cleaning and Dyeing Machinery.—Frank Purcell, 308 E. Boulevard, Charlotte, N. C.—Wants to correspond with manufacturers of dry cleaning and dyeing machinery.

Engine—Generator Units.—The National Power Machinery Co., 1928 Scranton Rd., Cleveland, Ohio—Wants to purchase alternating current uniflow engine generator units from 100 to 600 kw.

Engines (Corliss).—Hackley Morrison Co., Inc. (Mchy. Dealer), 204 N. Jefferson St., Richmond, Va.—Wants one 75 h. p. Corliss engine, releasing or non-releasing type; one 150 h. p. Corliss engine, for 125-150 lb. steam pressure.

Generator Set.—Hackley Morrison Co., Inc. (Mchy. Dealer), 204 N. Jefferson St., Richmond, Va.—Wants one 75 kw., 3 phase, 60 cycle, 2300 volt engine generator set, for 125 lb. steam pressure.

Glasses.—See Containers (Glass and Tin).

Governor (Gasoline Engine).—W. B. Newby, Rocky Mount, N. C.—Wants prices on governors, used on gasoline engine to control speed of fly wheels, by means of brake.

Jointer.—See Woodworking Tools.

Leather.—Nicholas T. Karameros, 15 Aristotelous St., Athens, Greece—Wants to represent manufacturers of glazed and patent kid leather.

Mining Machinery.—Paschal Metal Mines, Inc., 104-5 Masonic Bldg., Augusta, Ga.—Wants prices and catalogs on machinery to mine copper, gold, lead and silver.

Miscellaneous Supplies.—C. H. Barnes, Mgr., the First National Bldg. Corp., St. Augustine, Fla.—Wants the following:

- (1) Dusters.
- (2) Janitor Supplies.
- (3) Mops and Mop Wringers.
- (4) Oils and Wax—floor.
- (5) Paper Towels.
- (6) Soap Containers.

Ovens.—See Bakery Plant Equipment.

Plaited Cotton Filler.—Victor Cooler Door Co., Inc., Hagerstown, Md.—Wants in 1000-lb. lots or more, plaited cotton filler for making gaskets for cold storage doors, about 3/8-in. diam. made like sash cord, but very soft, which makes the gasket resilient.

Restaurant Equipment.—Hellbron Investment Co., Texarkana, Tex.—Wants prices and catalogs on "Speak Easy" cooking arrangement for meats, for sandwich shop.

School Furniture and Equipment.—J. H. Miser, Pikeville, Tenn.—Wants prices on auditorium chairs, pupil's desks, teachers' desks, home economics equipment, etc., to be purchased later in summer for \$70,000 Bledsoe County school.

Sewers.—See Retaining Walls, etc.

Shovels (Power).—Santa Fe Lime Rock Corp., 103 E. Main St., South, Gainesville, Fla.—Wants prices on steam and gasoline power shovels, prefer North West gasoline shovels.

Stoves (Gasoline, Cook).—J. C. Minge, Mandarin, Fla.—Wants to correspond with manufacturers of gasoline cook stoves.

Surfacer.—See Woodworking Tools.

Switches (Pressure).—John E. Hogle, 5525 Bonna Ave., Indianapolis, Ind.—Wants list manufacturers of pressure switches, suitable for automatic water systems.

Talc Grinding Mill.—See Crusher (Talc) and Grinding Mill.

Tanks (Pressure).—John E. Hogle, 5525 Bonna Ave., Indianapolis, Ind.—Wants list manufacturers of pressure tanks in sizes 8x16-in. to 12x36-in.

Tin Cans.—See Containers (Glass and Tin).

Trenching Tools.—W. S. Kilby, Supt., United Fuel Gas Co., 814 Fourth Ave., Huntington, W. Va.—Is constructing 20-in. gas pipe line from Martin, Floyd County, Ky. to Kenova, W. Va., and wants trenching tools.

Wheel Press (Hydraulic).—Roux Crate Co., Inc., Guy Ridge, Gen. Supt., Bartow, Fla.—Wants hydraulic wheel press; give full description, price, location and condition.

Woodworking Tools.—E. A. Close & Son, Madison, Va.—Wants following rebuilt machinery:

- (1) Floor Swing Saw Table.
- (2) Jointer.
- (3) Lathes—back knife and hand.
- (4) Press—hand drill.
- (5) Saw—band.
- (6) Shaping Machine.
- (7) Surfacer—24 to 26-in. single.
- (8) Woodworker—combination.

Woodworking Tools.—J. B. Cromm Lumber Co., Shawnee, Okla.—Wants motor-driven, combination rip saw, jointer and surfacer.

Bids Asked

Air Compressor.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids May 2 for belt-driven air compressor, 110 volts, A. C., single phase, 60 cycle, electric motor, 1/2 h. p., complete with 30 to 35-gal. steel tank.

Automobile Supplies, etc.—Marine Corps,

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Quartermaster's Dept., Washington, D. C.—Receives bids May 6 to furnish 25 yds. leatherette; 500 standard curtain fasteners; 750 white nickel finish fasteners, binding, enamel, etc.; delivery Quantico, Va. Sch. 606.

Barges (Steel).—Mississippi River Comsn., First and Second Dist., Memphis, Tenn.—Receives bids May 14 to construct 12 steel barges.

Bridge.—Plainview, Tex. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—State of Virginia. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Bastrop, La. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Asheville, N. C. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Moncks Corner, S. C. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Plainview, Tex. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—State of Maryland receives bids for 2 bridges. See Construction News—Roads, Streets, Paving.

Bridge.—Macon, Miss. See Construction News—Roads, Streets, Paving.

Cement (Portland).—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids May 3 to furnish 621 bbls. Portland cement, in cloth sacks, 4 sacks to barrel; delivery Quantico, Va. Sch. 601.

Coal-Handling Equipment.—Geo. H. Whitfield, Director, Dept. of Public Utilities, Room 319, City Hall, Richmond, Va.—Receives bids May 2 for coal-handling equipment for Richmond City gas works.

Coal and Material Handling Plant Equipment.—Alabama State Docks Comsn., State Office Bldg., Wm. L. Sibert, Chrmn., Mobile, Ala.—Receives bids May 19 to furnish, deliver and erect equipment for coal and material handling plant.

Disc Grinder and Sander.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids April 29 for disc grinder and sander with two 16-in. cast-iron discs, operated by 1/2-h. p. motor.

Door and Window Grilles.—U. S. Veterans Bureau, Construction Div., Arlington Bldg., Washington, D. C.—Receives bids May 17 to furnish labor and material for door and window grilles at U. S. V. Hospital No. 74, Gulfport, Miss.

Elevator.—C. A. Rainwater, Archt., McAllen, Tex.—Wants sub-contract bids on elevator for \$150,000, 3-story hotel at Harlingen.

Footways.—Baltimore, Md. See Construction News—Roads, Streets, Paving.

Furniture and Fixtures.—Board of Supvrs. of Leflore County, A. R. Bew, Clk., Greenwood, Miss.—Receives bids May 2 for furniture and fixtures for courthouse and jail.

Gasoline and Oils.—State Highway Comsn., Austin, Tex.—Receives bids May 23 to furnish gasoline and oil for period of 12 months; R. A. Thompson, State Highway Engr.

Grading.—Cumberland, Md. See Construction News—Roads, Streets, Paving.

Heating, Plumbing, Electric Wiring, Special Equipment.—State Hospital Removal, Improvement and Land Sale Commission, R. L. Brown, Sec., Box 40, Jackson, Miss.—Receives bids May 11 for heating, plumbing, electric wiring and special equipment for hospital building and hydro-therapy dept. for State Insane Hospital; plans and specifications from N. W. Overstreet, Archt., Miss. Fire Bldg.

Lock Gate.—U. S. Engineer Office, Pittsburgh, Pa.—Receives bids May 18 to furnish and deliver one lower lock gate for Lock No. 2, Allegheny River.

Lumber.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids May 2 to furnish 22,000 B. M. ft. white pine lumber, different dimensions; delivery Quantico, Va. Sch. 600.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids May 10 for following: Blank forms and information (Circular 1800) on application to office of Panama Canal; Asst. Purchasing Agts. at 24 State St., New York; 611 Gravier St., New Orleans, La.; Fort Mason, San Francisco, Cal.; also U. S. Engineer Offices throughout country:

Steel: wire rope; steel wire; manilla rope; manilla; bronze; brass; copper; brass tubing; sheet lead; plate zinc; iron and steel pipe; pipe fittings; soil traps; floor drains; pipe hangers; railing fittings; valves; nails; drill rods, etc.

Mower (Lawn) and Roller.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids May 4 for combined power-driven lawn mower and roller.

Oil (Motor).—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids

April 30 to furnish 1000 gal. medium motor oil; delivery Parris Island, S. C. Sch. 604.

Paving.—Richmond, Va. See Construction News—Roads, Streets, Paving.

Paving.—San Antonio, Tex. See Construction News—Roads, Streets, Paving.

Pipe (Cast Iron).—See Sewers.

Pipe (Concrete).—See Sewers.

Pipe (Vitrified).—See Sewers.

Plates (Motor Vehicle License).—State Highway Comsn., Austin, Tex.—Receives bids May 23 to supply motor vehicle license plates, for 12 months period; R. A. Thompson, State Highway Engr.

Rubber Boots.—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids May 7 to furnish 3200 prs. rubber boots; Depot Quartermaster, 1100 S. Broad St., Philadelphia, Pa. Sch. No. 534.

Refrigerating and Ice-Making Plants.—U. S. Veterans Bureau, Construction Division, Arlington Bldg., Washington, D. C.—Receives bids May 24 for refrigerating and ice-making plant in mess and kitchen building, U. S. V. Hospital No. 78, N. Little Rock, Ark.

Refrigeration Plant.—C. A. Rainwater, Archt., McAllen, Tex.—Wants sub-contract bids on refrigeration plant, with ice water piped to each room, for \$150,000, 3-story hotel at Harlingen.

Retaining Walls, etc.—Board of Awards, F. A. Dolfeld, City Register, Baltimore, Md.—Receives bids May 4 for retaining wall and sewers, Broening Park; Winfield F. Courts, Park Engr.

Road.—State of Kentucky receives bids for 17 roads. See Construction News—Roads, Streets, Paving.

Road.—Charleston, S. C. See Construction News—Roads, Streets, Paving.

Road.—Albany, Tex. See Construction News—Roads, Streets, Paving.

Road.—Inverness, Fla. See Construction News—Roads, Streets, Paving.

Road Embankment.—Lake Charles, La. See Construction News—Roads, Streets, Paving.

Road.—Groesbeck, Tex. See Construction News—Roads, Streets, Paving.

Road.—State of Maryland receives bids for 5 roads. See Construction News—Roads, Streets, Paving.

Road.—Baton Rouge, La. See Construction News—Roads, Streets, Paving.

Road.—Princeton, W. Va. See Construction News—Roads, Streets, Paving.

Road.—Asheville, N. C., receives bids to pave 2 roads. See Construction News—Roads, Streets, Paving.

Road.—State of Florida receives bids for 5 roads. See Construction News—Roads, Streets, Paving.

Road.—Upper Marlboro, Md. See Construction News—Roads, Streets, Paving.

Rubber Bands.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids May 2 for 50 lbs. rubber bands, No. 30.

Sewers.—City of Houston, Tex., O. F. Holcombe, Mayor—Receives bids May 2 for sanitary sewers on Audubon and Hawthorne Sts.

Sewers.—A. J. Hawkins, City Engr., Birmingham, Ala.—Receives bids May 24 for constructing storm sewers in Graymount Section, Improvement Ordinance No. 782-D, 15 to 72-in. in diam., reinforced concrete box sewers, necessary manholes, catch basins, cost \$185,000.

Sewers.—Board of Awards, Baltimore, Md., Milton J. Ruark, Sewerage Engr.—Receives bids May 4 for storm drains and sanitary sewers in Sewer Districts H-6 and J-4, work includes 36-in., 27-in., 24-in. diam. reinforced concrete pipe drain; 27-in., 24-in., 21-in., 18-in., 15-in., 12-in. diam. vitrified pipe drain; 8-in. and 10-in. diam. vitrified pipe sewers; house connection, underdrain, etc., also receives bids for sanitary sewers in Miscellaneous Sewer Districts, Sanitary Contract No. 241, comprising approximately 105 ft. of 15-in., 3755 ft. of 12-in., 1162 ft. of 10-in., 5640 ft. of 8-in. vitrified pipe sewer, vitrified house connections, underdrain, cast-iron pipe house connection, underdrain, etc. Also sanitary sewers in District P-11, Sanitary Contract No. 242, including 2500 ft. 18-in., 1760 ft. 15-in., 75 ft. 12-in., 45 ft. 6-in., vitrified sewer pipe.

Sidewalks.—Biloxi, Miss. See Construction News—Roads, Streets, Paving.

Steel.—U. S. Engineer Office, Florence, Ala.—Receives bids May 4 to furnish, fabricate and deliver all material for one steel caisson for Wilson Dam, Tennessee River.

Steel Wool.—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids May 2 for 500 lbs. steel wool, No. 2, in 1-lb. packages.

Street.—Talladega, Ala. See Construction News—Roads, Streets, Paving.

Street.—Warrenton, N. C. See Construction News—Roads, Streets, Paving.

Street.—Baltimore, Md. See Construction News—Roads, Streets, Paving.

Street.—Danville, Va. See Construction News—Roads, Streets, Paving.

Street.—Hyattsville, Md. See Construction News—Roads, Streets, Paving.

Street.—Huntington, W. Va. See Construction News—Roads, Streets, Paving.

Street.—Columbia, Mo. See Construction News—Roads, Streets, Paving.

Tank and Tower, Etc.—U. S. Veterans Bureau, Const. Div., Arlington Bldg., Washington, D. C.—Receives bids May 17 to furnish labor, materials, and all work for 100,000 gal. steel water tank and tower and Zeolite Water Softening system at U. S. V. Hospital, Edward Hines, Jr., Maywood, Ill.

Thermometers (Clinical).—U. S. Veterans Bureau, Supply Division, Washington, D. C.—Receives bids April 30 for 3000 clinical thermometers with Centigrade; 200 clinical thermometers with Fahrenheit scale.

Water Softening System.—Tank and Tower, etc.

Water Works.—City of Biloxi, Miss., Jno. J. Kennedy, Mayor—Receives bids May 9 for furnishing labor and materials and constructing 300,000 gal. reinforced circular reservoir at West End Pumping Station.

Wood Shop Equipment.—Dist. Commr., Room 500, District Bldg., Washington, D. C.—Receives bids May 11 to furnish wood shop equipment.

Board of Trustees of Harrison-Stone-Jackson Agricultural High School and Junior College, C. C. Sweetman, Sec., Perkinston, Miss., receives bids May 3 for following material and equipment for school buildings; prices f. o. b. Perkinston:

- (1) **Engine (Steam) and Generator.**—one Troy horizontal automatic steam engine, direct connected to one Ridgeway 20 kw., 125 volt generator complete, ready for operation, including exhaust connected to close-type heater.
- (2) **Pumps.**—two No. 4-C Gardner Duplex, brass pumps, complete connected, including exhaust to closed type heater.
- (3) **Pipe and Fittings.**—6000 ft. of pipe, various sizes, both black and galvanized; also unions, tees, elbows, bushings, valves, nipples, etc., various sizes and quantities.
- (4) **Wire.**—3600 ft. of electric wire, Nos. 0 and 4, direct current.
- (5) **Lumber.**—10,600 ft. creosoted pine lumber, various dimensions.

Building Materials and Equipment

T. L. Simmons, Chmn. Bldg. Comm., Corinthian and Queen City Lodges, A. F. & A. M., Rocky Mount, N. C., wants prices on following for \$75,000 temple:

Flooring.—hardwood.
Limestone.
Metal Ceilings.
Rolling Partitions.
Steel Sash and Trim.
Tile.—hollow.
Vaults.
Ventilators.
Wire Glass.

J. H. Miser, Pikeville, Tenn., wants prices on following for \$70,000 Bledsoe County school building:

Flooring.—hardwood and terrazzo.
Plaster Board.
Tile.—hollow and interior.

Rev. L. L. Scott, Pastor, Baptist Church, Seminole, Okla., wants prices on following for \$50,000 church:

Cast Stone.
Limestone.
Metal Ceilings.
Plaster Board.
Steel Sash and Trim.
Terra Cotta Trim.
Wire Glass.

P. H. Weathers, Archt., 10 N. Broadway, Oklahoma City, Okla., wants prices on following for \$15,000 theater at Crescent:

Cast Stone.
Limestone.
Metal Ceilings.
Tile.—hollow.

Rev. M. J. Clarke, P. O. Box No. 4, Wentzville, Mo., wants prices on following for \$8000 rectory:

Flooring.—composition, hardwood, linoleum, rubber tile.
Refrigerators.—electric.
Steel Sash and Trim.
Tile.—hollow.

W. C. Stalley, Contr., Monroe, La., wants prices on following for 2-story store building:

Flooring.—tile.
Metal Ceilings.

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Malcolm Hecht, Treas. Hecht Bros., Baltimore and Pine Sts., Baltimore, Md., wants prices on following for 6-story store and warehouse addition:

Flooring—hardwood.
Incinerators.
Limestone.
Roofing—composition.
Sprinkler System.
Steel Sash and Trim.
Tile—hollow.
Wire Glass.

Thompson-Starrett Co., Contrs., 101 Marietta St., Atlanta, Ga., wants prices on following for \$1,000,000 theater building at Birmingham, Ala.:

Flooring—rubber tile and terrazzo.
Marble.
Metal Ceilings and Doors.
Terra Cotta Trim.
Tile—hollow and interior.
Sprinkler System.
Ventilators.
Wire Glass.

Alfred A. Kafer, New Bern, N. C., wants prices on following for \$30,000 stores building:

Elevators—electric.
Flooring—hardwood.
Metal Ceilings and Doors.
Refrigerators—electric.
Roofing—built-up.
Steel Sash and Trim.
Tile—gypsum.
Ventilators.
Wire Glass.

William Lambert, owner-builder, 1812 West 16th St., Oklahoma City, Okla., wants prices on following for \$23,000 warehouse:

Metal Doors.

Will N. Noonan Co., Archt., 301 Builders Exchange Bldg., San Antonio, Tex., wants prices on following for \$35,000 church and Sunday school, Kingsville, Tex.:

Cast Stone.
Rolling Partitions.
Steel Sash and Trim.
Tile—hollow.

Wise Granite and Construction Co., American Natl. Bank Bldg., Richmond, Va., wants bids on all lines of work, also prices on following, for \$1,250,000 hotel at Old Point:

Cast Stone.
Flooring—hardwood, terrazzo and tile.
Limestone.
Marble.
Mail Chutes.
Metal Doors.
Terra Cotta Trim.
Tile—hollow and interior.

Troutville Poultry Farm, Inc., E. C. Firestone, Mgr., Troutville, Va., wants data and prices on following for poultry barn:

Sheet Metal Siding.

Will N. Noonan Co., Archt., 301 Builders Exchange, San Antonio, Tex., wants prices on following for residence, Sonora, Tex.:

Flooring—hardwood.

Vinson B. Smith, Jr., Archt., Gulfport, Miss., wants prices on following for \$15,367 billiard parlor:

Cast Stone.
Flooring—rubber tile and tile.
Marble.
Metal Ceilings and Doors.
Refrigerators—electric.
Roofing—composition.
Steel Sash and Trim.
Tile—interior.
Ventilators.
Wire Glass.

Rev. C. R. Baker, Piedmont, Mo., wants prices on following for \$10,000 church:

Metal Ceilings.
Plaster Board.
Roofing—composition, tile.
Steel Sash and Trim.
Ventilators.

Carl A. Fenska, 201 Laura St., Jacksonville, Fla., wants prices on following for \$12,000 duplex:

Cast Stone.
Flooring—hardwood, tile.
Refrigerators—electric.
Stone Mantel for Fireplace.

E. M. Reynes, Archt., 622 Perdido St., New Orleans, La., wants prices on following for \$9000 dwelling:

Flooring—hardwood, tile.
Tile—hollow, interior.

W. Ryland Martin, Sec. & Treas., Virginia Museum of Natural History, Inc., P. O. Box 1088, Roanoke, Va., wants prices and information on various and sundry museum supplies and materials including following:

Flooring—hardwood.
Metal Ceilings and Doors.
Museum Supplies.
Steel Sash and Trim.
Tile—hollow and interior.

William Ward Watkin, Archt., 212 Scanlan Bldg., Houston, Tex., wants prices on following for Rice Institute faculty club building:

Flooring—hardwood, rubber tile and tile.
Limestone.
Marble.
Refrigerators—electric.
Steel Sash and Trim.
Tile—hollow and interior.

A. J. Garlow, Pres., Second Natl. Bank, Morgantown, W. Va., wants prices on following for store and office building:

Flooring—hardwood, terrazzo and tile.
Roofing—built-up.
Steel Sash and Trim.
Tile—hollow.
Wire Glass.

Trade Literature

A New Worthington Bulletin.

"Equipment for Power Plants" is the title of Bulletin H. O. 1900 which was recently issued by the Worthington Pump and Machinery Corporation, 115 Broadway, New York. This bulletin discusses modern power plant practice particularly as regards steam condensers, pumps, air compressors, Diesel engines, gas engines and oil and water meters. It is well illustrated and presents much practical information for power plant and consulting engineers.

The Revolver Fully Described.

The latest bulletin of the Revolver Company, Jersey City, N. J., is No. 90-C and it covers their "Silent Chain"—spur-gear drive—Model M. This machine is a portable elevator which is manufactured in all practical heights, all practical sizes and practical capacities. An illustration with all the features of the "Revolver" pointed out by arrows, with appropriate descriptions, affords complete understanding of its possibilities. There are also other pictures, besides tabulated data and complete reading matter.

Facts About the Ord Concrete Road Finisher.

Full particulars concerning the Ord Concrete Road Finisher are given in an illustrated folder printed in colors and issued by the manufacturers of this machine, A. W. French & Co., 8440 Lowe avenue, Chicago, Ill. It is claimed that a concrete road finished with one of these machines will be "without a bump; without a bubble." It is further stated: "By correct compacting, stones and pebbles are caught by the front edge of the screed and rolled or squeezed down into the mass of concrete. The result is a forcing of all air and water pockets to the surface." This, it is remarked, is so well done that there is no danger of the pavement breaking under the heaviest traffic.

Steel in Building Construction.

A booklet of 20 pages, entitled "Steel Never Fails," has been published by the American Institute of Steel Construction, Inc., 285 Madison avenue, New York. It is asserted that it "tells the story of structural steel as it has never been told before." The Institute has tried to make clear in terms understandable by the layman, as well as by those versed in various phases of construction, just what qualities are responsible for the outstanding service performed by steel in the erection of structures of all types, from dwellings to bridges and skyscrapers. The booklet is handsomely and impressively illustrated, the pictures including views of some of the greatest steel-frame buildings in the world. A copy of it will be sent free to anyone who sends a request to the Institute.

"Panelouvres" for Hotel and Other Doors.

Two folders published by the Ventilouvre Company of Bridgeport, Conn., give full particulars about the excellencies of their "Panelouvre" for doors in hotel rooms and other chambers. They include several letters of hearty commendation from hotels and other establishments that have used these ventilating devices, which are installed in the doors themselves, and, as the name indicates, they are in the form of a ventilating panel, so that the occupants of a room are assured of privacy. Illustrations show exactly how the Panelouvres look when installed. They give ventilation without draft.

Whitton Bulletins on Lee Steam Turbines.

Bulletin 433 of the D. E. Whitton Machine Company of New London, Conn., in comprehensive reading material and adequate pictures gives full particulars about the Lee steam turbine for boiler-feed service, featuring the automatic follow-up governor to maintain constant excess pressure, the over-speed stop to stop the turbine in case of accidental overspeeding, and the no-water stop to shut down the unit should suction fail to supply the pump. A second edition of Bulletin 401 tells also about the advantages of this turbine for driving boiler-feed and circulating pumps, pulverizers and stokers, generators, blowers and exhausters, as well as other equipment requiring a prime mover. It is likewise fully illustrated throughout.

A Handsome Advertising Portfolio.

The George Batten Company, Inc., 383 Madison avenue, New York, with offices also in Boston and Chicago, has published a large and fine portfolio entitled "Trade, Industrial and Direct Mail Advertising." The company says that it exemplifies the last word in modern agency practice in the preparation of business paper and direct mail advertising. The service department of the company operates in two divisions—the consumer copy division and the trade and industrial copy division—and the purpose of this particular portfolio is to portray the work of the latter. But there are six other departments of the company organized for other forms of special service. Wm. H. Johns is president and S. W. Page is manager of business promotion.

Salesmanship. By Charles H. Fernald, M.B.A. New York: Prentice-Hall, Inc. Copyright 1926. Pp. 478. Cloth. Gilt. \$4.50.

Differing from most other books on the subject of salesmanship in that it lays stress upon the sale of "points of view" rather than of any particular products or services, this helpful manual presents the economics of salesmanship so that both experienced salesmen and students may see where the work performed is justifiable and necessary. It includes consideration of psychology, so that they may adjust their minds to realization of actual sales conditions, and so learn why some ideas succeed and some others fail. Thus the reader can see that service to buyers is the criterion in selling rather than high-pressure salesmanship. The book is based upon actual experiences of men successful in the business field and the development of likable personality and of the methods and reasons employed to effect various influences upon "prospects" is fully covered. Methods of building sales canvasses are explained, as are also plans followed to establish a close union of selling, advertising and collections. The book is practical, but its style is entertaining as well as instructive throughout.

In writing to parties mentioned in this department it will be of ad antage to all concerned if the Manufacturers Record is mentioned.

Cotton Spindle Activity for March—South Had Over 63 Per Cent of Country's Spindle Operating Time.

According to preliminary figures of the Department of Commerce, 37,035,710 cotton-spinning spindles were in place in the United States on March 31, 1927, of which 32,919,288 were operated at some time during the month, compared with 32,872,102 for February, 32,633,550 for January, 32,496,250 for December, 32,586,770 for November, 32,592,806 for October and 33,245,114 for March, 1926.

The aggregate number of active spindle hours reported for the month was 9,628,990,121. Over 63 per cent of the operating time was made by Southern mills. During March the normal time of operation was 27 days compared with 23½ for February, 25½ for January, 26 for December, 25½ for November and 25¾ for October. Based on an activity of 8.78 hours per day the average number of spindles operated during March was 40,618,367 or at 109.7 per cent capacity on a single shift basis. This percentage compares with 106.8 for February, 102.3 per January, 100.3 for December, 101.2 for November, 98.9 for October and 102.2 for March, 1926. The average number of active spindle hours per spindle in place for the month was 260.

State	Spinning Spindles		Active Spindle Hours for March	
	In Place March 31	Active During March	Total	Average per Spindle in place
United States	37,035,710	32,919,288	9,628,990,121	260
Cotton Growing States	18,075,138	17,596,644	6,099,379,075	337
New England States	17,277,868	13,852,780	3,170,076,656	183
All Other States	1,682,704	1,469,864	359,534,390	214
Alabama	1,507,124	1,400,488	471,764,331	313
Connecticut	1,174,076	1,068,302	248,926,247	212
Georgia	2,974,614	2,898,212	951,975,031	320
Maine	1,122,736	925,190	208,425,409	186
Massachusetts	10,899,520	8,526,633	1,908,649,637	175
New Hampshire	1,427,862	1,111,850	269,755,781	189
New Jersey	399,044	356,384	72,921,245	183
New York	871,640	744,288	195,738,153	225
North Carolina	6,130,722	5,955,530	2,141,112,163	349
Pennsylvania	123,172	105,784	22,756,526	185
Rhode Island	2,508,866	2,076,718	499,053,665	199
South Carolina	5,373,666	5,338,118	1,961,320,196	365
Tennessee	589,244	573,220	189,790,246	322
Texas	283,780	246,528	86,883,640	323
Virginia	711,378	691,302	173,087,931	243
All Other States	933,266	840,736	226,827,920	238

Machine to Fold and Put Letters in Envelopes Ready for Mailing.

Auburn, Ala., April 23—[Special.]—An invention which may revolutionize the work of mailing out thousands of tons of letters in this country has been perfected by S. J. T. Price of Auburn, accountant for the Alabama Polytechnic Institute. This is a mechanical letter-folding machine embodying three patented features, namely: Folding the paper, feeding the envelope, inserting the letter and sealing the envelope. Patents have been applied for and Mr. Price has been assured that his machine is patentable. It will probably be placed on the market within a year.

The machine, it is said, will be a big time saver, easily doing the work of from 8 to 10 clerks, the estimated output being 5000 papers folded and inserted in the envelopes per hour. The popular feature of this machine is that it will feed the letter into a "window" envelope.

The paper is fed automatically from a basket, one sheet at a time, into a set of three rollers; these rollers fold the papers twice by a buckling process. In the meantime an envelope is taken from a container, carried up by friction belts to a platform, where it is opened. The folded paper from the rollers is inserted in the open envelope, which is sealed and dropped in a letter basket. This folds letters for a No. 10 envelope, and has a side feed for letters for 6¾-inch envelopes.

It is remarkable that Mr. Price is not a mechanic and has

never had any experience with machines. However, in his work as college accountant he saw the great need of time-saving devices in getting out letters in bulk. Accordingly, in his spare time, he began to develop his idea. He is a native of West Virginia, but came to Auburn in 1918 from Washington, D. C., where he was auditor in the United States Agricultural Department.

\$2,000,000 for Coal Mine and Town.

Huntington, W. Va.—The expenditure of \$2,000,000 for the development of coal properties and the establishment of a new town in Logan county is contemplated in plans of the Island Creek Coal Company, J. D. Francis, vice-president. Work will soon begin on tipplers, dwellings, street paving and other facilities. Plans are being worked out for opening a new mine at operation No. 22; two 400-foot shafts to serve it are nearing completion.

\$600,000 Missouri Hotel Under Construction.

Construction is in progress on the New Missouri Hotel at Jefferson City, Mo., which is being erected by the Realty Holding & Investment Co. at a cost of approximately \$600,000; completion is expected by September 1. The hotel will contain 140 rooms and bath, dining room, coffee shop, barber shop, physical culture department, gymnasium, steam and vapor baths, swimming pool, stores and sample rooms. Kennerly & Stiegemeier are the architects, and the J. J. O'Brien Co., general contractors, both St. Louis. Sub-contracts have been awarded as follows: Steel and erection, Mississippi Valley Structural Steel Co.; plumbing, O'Brien Plumbing Co.; heating and ventilating, Hoffman Heating Co., all St. Louis; cut stone, Alexander King Stone Co., Bloomington, Ind., and elevators, Reliance Elevator Co., Chicago.

Co-operative Report on Boll-Weevil Emergence From Cage Tests Prior to April 1, 1927.

The following, which is the second of the series of reports being issued semi-monthly for the season of 1927, includes the percentage of weevils that had emerged prior to April 1 at the various co-operating stations. These records are given in the following table, and, in addition, records for 1926 and 1925 are given where available:

Station	Co-operator	Per cent of number put into cages that emerged prior to April 1		
		1927	1926	1925
College Station, Tex.	Dr. F. L. Thomas			
Florence, S. C.	Texas State Exp. Sta.	2.28	2.45	1.96
	Dr. F. A. Fenton			
	U. S. Bureau of Ent. & S. C. State Exp. Sta., co-operating	1.51	.04	1.80
Aberdeen, N. C.	Dr. R. W. Leiby			
Raymond, Miss.	N. C. Dept. of Agriculture	1.15	....	.19
	Mr. O. M. Chance			
A. & M. College, Miss.	Miss. State Plant Board	.65	....	....
	Mr. Hunter Kimball			
Auburn, Ala.	Miss. State Plant Board	.36	....	....
	Mr. J. M. Robinson			
Rocky Mount, N. C.	Ala. State Exp. Sta. ....	.18	....	....
	Dr. R. W. Leiby			
Tallahul, La.	N. C. Dept. of Agriculture	.16	.02	.05
	U. S. Bureau of Entomology .....	.12	.02	.01
Stoneville, Miss.	Mr. G. I. Worthington			
Experiment, Ga.	Miss. State Plant Board ..	.10	....	....
	Mr. R. P. Bledsoe			
Baton Rouge, La.	Ga. State Exp. Sta. ....	....	.02	.40
	Dr. W. E. Hinds			
Holly Springs, Miss.	La. State Exp. Sta. ....	....	.80	1.64
	Mr. T. F. McGehee			
Poplarville, Miss.	Miss. State Plant Board	....	....	....
	Mr. J. E. Lee			
Fayetteville, Ark.	Miss. State Plant Board	....	.05	....
	Mr. Dwight Isely			
	Ark. State Exp. Sta. ....	....	....	....

At College Station, Texas, emergence records are available at several nearby points for the years 1906, 1907 and 1908. At these points an average of 2.44 per cent of the weevils

emerged prior to April 1 and at College Station 1.96 per cent emerged prior to the same date in 1925, 2.45 per cent in 1926, compared with 2.28 per cent this year.

At Florence, S. C., in 1924, prior to April 1, .03 per cent of the weevils had emerged; in 1925, 1.80 per cent; in 1926, .04 per cent, and this year 1.51 per cent emerged.

At Tallulah, La., during the 10 years prior to 1925 an average of .22 per cent of the weevils emerged prior to April 1. In 1925 during the same period .01 per cent emerged, .02 per cent in 1926 and .12 per cent this year.

It will be noted in the table that weevil emergence was somewhat greater this year prior to April 1 than in 1926 at one point in South Carolina, two in North Carolina, three in Mississippi, one in Alabama and one in Louisiana, and that emergence was somewhat greater last year than this year at one point in Texas, one in Georgia, one in Louisiana and one in Mississippi. At one point in Mississippi no weevils emerged either in 1926 or 1927. Comparing the records of this year with those of 1925, emergence was greater this year at one point in Texas, two in North Carolina, one in Alabama and one in Louisiana, and greater in 1925 at one point in South Carolina, one in Georgia and one in Louisiana. No weevils emerged either in 1925 or this year at one point in Mississippi.

Records in past years at Tallulah, La., show that an average of about 17 per cent of the total emergence for the season is completed prior to April 1. At most points weather conditions were more favorable for weevil emergence this year than during the same period last year. It is too early to predict the final emergence, but it is now obvious that the percentage of survival will probably be greater this year than in 1926 at many points.

\$1,000,000 Building Program by One Company.

Atlanta, Ga.—A building program to involve more than \$1,000,000 has been undertaken by the Massell Realty Company of this city. The chief item is a proposed office building at Spring and James streets to cost \$350,000. This structure will be eight stories, 100 by 90 feet, of reinforced concrete frame, limestone for the first two floors and brick and terra cotta above, with concrete foundation, terrazzo floors and gravel roof. Plans are being prepared by the Raymond C. Snow Company, Atlanta.

Other items include a \$37,500 building at 489 Whitehall street, \$40,000 structure at 487 Whitehall street, \$70,000 building at 457 Whitehall street, two commercial buildings at 402-12 Forrest avenue to cost \$25,000, \$20,000 building for printing plant at 119 Piedmont avenue, \$30,000 building at Spring street and Merritts avenue, \$60,000 building at Marietta, Cain and Walton streets, and \$5000 filling station at Stewart avenue and Stephens street. The list also includes a \$300,000 building nearing completion at Spring and Harris streets.

May Build \$150,000,000 Gas Line.

Houston, Tex.—The construction of a second \$150,000,000 gas pipe line, to parallel the present line of the Houston Oil Co. from the Cole field to Houston, may be a part of an expansion program which the company contemplates. The new line, it is said, will start from the field in Webb and Duval counties, and enlarging from 12 to 20 inches at the Houston terminus. It will double the present carrying capacity and provide for a total of 160,000,000 cubic feet a day over the two lines.

The thirty-first annual convention of the Interstate Cottonseed Crushers' Association will be held in New Orleans on May 11, 12 and 13.

Texas Cattle Rail Rates Reduced.

Austin, Texas, April 25—[Special.]—More than \$1,000,000 will be saved Texas shippers this year, it is estimated, in the movement of cattle between interstate points, and an additional sum of several hundred thousand dollars will be saved them in intrastate shipments as a result of the 15 per cent reduction of freight rates on cattle, which will go into effect June 1. The reduction of freight rates has been ordered by the State Railroad Commission and the Interstate Commerce Commission.

It is stated by A. L. Priest, manager of the Livestock Traffic Association, that the intrastate movement of cattle aggregates approximately 100,000 cars a year, and that the spring movement to Kansas and Oklahoma for grazing purposes is about 10,000 cars a year.

The reductions are for short-haul traffic—within 600 miles—and are on a scale of miles with varying reductions. The largest reductions were ordered on the bulk of traffic, which moves from 200 to 400 miles, and of all points in the Southwest, and affects this market and shipping center most, it was pointed out. The order of the Interstate Commerce Commission covers shipments between Texas points and Oklahoma, Kansas, Southern Missouri, Arkansas, Louisiana and New Mexico. The Interstate Commerce Commission in 1921 ordered a reduction of 20 per cent in rates for over 600 miles, and the next year the short-haul rates were reduced about 10 per cent.

Reductions were asked because of the big increases that had been made in previous years. During Federal control of the railroads an increase of 25 per cent was made in cattle rates and in 1920 a further increase of 35 per cent was ordered. The latest reduction makes 35 per cent reduction since 1921, but leaves rates higher than prior to the war.

To Build \$500,000 Plant in Baltimore.

A site has been secured at Canton, Baltimore, by the Anchor Post Fence Co. of New York, on which it plans to erect a branch factory for making chain link and similar types of wire fence, gates and railings. The proposed plant will contain more than 100,000 square feet of floor space and it is estimated that site, buildings and equipment will cost \$500,000. Building operations are expected to be started in June and the plant completed by fall.

Asks Bids on \$2,000,000 Bonds.

Towson, Md.—Bids will be received until May 16 by the Baltimore County Commissioners, John R. Haut, chief clerk, for the purchase of all or any part of the fourth issue of \$2,000,000 of the Metropolitan District bonds, interest at 4½ per cent. The bonds will be issued in denominations of \$1000 and will be dated June 1, 1927, maturing in series over the period from 1938 to 1967.

Texas Spinach Crop Large.

Approximately \$2,242,000 worth of spinach has been shipped from Texas points this season, according to J. Austen Hunter, head of the San Antonio Market News Bureau. This represents 4513 carloads of 828 bushels each. The crop was given an average price of 60 cents a bushel to get the approximate value.

After May 1 the branch offices of the Nashville, Chattanooga & St. Louis Railway in Chicago, Ill., will be located in the Marquette Building at 140 South Dearborn street for both passenger and freight service, occupying rooms 1428 and 1430 respectively.

How is Your Business Growing?

More business! More sales! More profits! More today than yesterday—this week than last—this year than the year before.

"Sell and Grow" is a great urge, but it is only half the truth. For progress in business is not just material increase.

There is growth in reputation, the development of confidence and good-will. Growth in the loyalty and efficiency of employees; in the enthusiasm and capacities of executives. A better product is growth; and so is the elimination of wasteful practices. Better Budgeting is growth—budgeting based on more competent analysis of the facts and figures of one's business.

Growing in the will and power to serve, business develops the means to larger earnings and broader service.

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KALAMAZOO
PITTSBURGH
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DALLAS
FT. WORTH
HOUSTON
SAN ANTONIO
WACO
DENVER
SAN FRANCISCO
LOS ANGELES

FINANCIAL NEWS

Bond Issues Proposed

Ala., Alabama City—Assessment—City, W. H. Morton, Clk., receives bids May 2 for \$20,000 6% bonds.

Ala., Decatur—School—City receives bids May 3 for \$50,000 5% \$1000 denom. bonds. Address City Clk.*

Ala., Eufaula—Sewer—City, Ruby D. McEachern, Clk., receives bids May 3 for \$15,000 6% \$1000 denom. bonds.

Fla., Bartow—Road, Bridge—Polk County Commrs., J. D. Raulerson, Clk., receive bids May 3 for \$100,000 6% \$1000 denom. bonds.

Fla., Boynton—Improvement—City, Harry Benson, Vice-Mayor, voted \$500,000 bonds, including \$125,000, municipal golf course; \$20,000, city hall and fire station; \$20,000, municipal casino; \$35,000, electric lighting system; \$75,000, water-works extension; numerous street improvements.

Fla., Bradenton—Road—Manatee County Commrs., considering issuing \$328,000 time warrants; F. K. Webb, County Engr.

Fla., Bradenton—School Indebtedness—Manatee County School Board plans \$300,000 bond issue.

Fla., DeLand—Highway—Volusia County Commrs. authorized by State Legislature to issue \$115,000 certificates of indebtedness to build Ocean Shore Blvd.

Fla., Lake Butler—Road—Union County considering \$350,000 bond issue. Address County Commrs.

Fla., Quincy—Road—Gadsden County Commrs., F. F. Morgan, Clk., receive bids May 16 for \$200,000 5% \$1000 denom. bonds.

Fla., Orlando—Road—Orange County Commrs., B. M. Robinson, Clk., rejected bids for \$1,200,000 5% \$1000 denom. bonds.*

Fla., Orlando—Road—Orange County Commrs., B. M. Robinson, Clk., receive bids May 16 for \$1,200,000 5% \$1000 denom. bonds.

Fla., Panama City—Water Works—City plans selling \$100,000 bonds. Address City Clk.

Fla., St. Cloud—Street—City considering \$120,000 bond election. Address City Clk.

Ga., Adel—School—Cook County Board of Education calls election May 17 on \$95,000 bonds.

Ga., Columbus—Refund—City, H. B. Crawford, Mgr., receives bids May 3 for \$55,000 4½% \$1000 denom. bonds.

Ga., Cordele—Hydro-Electric—Crisp County ratified \$1,250,000 bond issue. Address County Commrs.*

Ga., Rockingham—School—Trustees of Rockingham School Dist. call election April 29 on \$10,000 bonds.

Ga., Rockmart—Improvement—City voted bonds. Address City Clk.

La., Baton Rouge—Road, Bridge—Louisiana Highway Com., Frank T. Payne, Chmn., plans \$2,000,000 bond issue, for Chef Menteur and BiGolets free bridges, and Hammond-New Orleans highway.

La., Covington—Road—St. Tammany Parish Police Jury, F. J. Martindale, Sec., receives bids May 10 for \$68,000 6% \$500 denom. bonds. Sub-Road Dist. No. 2 of Road Dist. No. 3 bonds.

La., Many—Water Works—Mayor and Board of Aldermen receive bids May 10 for \$50,000 6% bonds.

La., New Orleans—Public Improvement—Board of Liquidation, Finance Commr. Wamsley, receives bids May 18 for \$4,500,000 4½% \$500 and \$1000 denom. bonds.*

Md., Annapolis—Water Works—City, Adelle R. Tongue, Clk., calls election May 18 on \$250,000 bonds; Allen Bowie Howard, Mayor.*

Md., Upper Marlboro—School—Prince George's County Board of Education, Nicholas Orem, County Supt., receives bids May 10 for \$275,000 4½% bonds.

Miss., Collins—School—Board of Suprvs. of Lone Star Consolidated School Dist. calls election April 29 on \$10,000 bonds.

Miss., Decatur—Road—Newton County voted \$225,000 bonds. Address Board of Suprvs.*

Miss., Fayette—School—Fayette Separate School Dist. votes May 9 on \$50,000 5½% bonds.

Miss., Kosciusko—Sewer—City votes May 2 on \$90,000 bonds. Address City Clk.

Miss., Pascagoula—Bridge—Jackson County Board of Suprvs., Fred Taylor, Clk., receives bids May 2 for \$100,000 6% \$1000 denom. Suprvs. Dist. No. 4 bonds.

Miss., Pascagoula—Bridge—Jackson County Board of Suprvs. receives bids May 2 for \$100,000 6% bonds.

Miss., Saucier—School—Board of Trustees, Saucier Consolidated School Dist., H. P. Hopper, Sec., receives bids May 3 for \$35,000 bonds.*

Mo., Grant City—Memorial Hall—City voted \$25,000 bonds. Address City Clk.

Mo., Huntsville—Road—Randolph County Commrs. may call election in May on \$1,375,000 bonds.

Mo., Independence—Tax Anticipation—Jackson County Court plans issuing \$175,000 notes; \$125,000, current expenses; \$50,000, county roads. Address County Commrs.

Mo., Vandalia—School—City voted \$35,000 bonds. Address City Clk.

N. C., Denton—Street—Town receives bids May 3 for \$15,000 6% bonds. Bruce Craven, Atty., Trinity, N. C.

N. C., Hillsboro—Orange County Commrs., C. H. Jones, Clk., receives bids May 2 for \$215,000 4½% \$1000 denom. bonds; \$166,000, road and bridge; \$49,000, funding.

N. C., Marion—School—McDowell County voted \$130,000 bonds; Clinchfield School Dist., \$100,000; Cross Mill, \$30,000; Commrs. receive bids May 3 for \$130,000 bonds.*

N. C., Mars Hill—Water Works—Board of Aldermen authorized bond issue.

N. C., Weldon—Refund—Town, N. M. Shearin, Clk., receives bids April 29 for \$44,000 \$1000 denom. bonds.

Okla., Blackwell—Municipal Improvement—City Comm., M. M. Lively, Mayor, plans \$50,000 bond issue; \$15,000, sewer; \$35,000, water works.

Okla., Hennessey—School—City voted \$50,000 bonds. Address Pres. School Board.*

Okla., Pawhuska—Park Improvement—City, Chas. M. Hart, Clk., receives bids May 2 for \$40,000 bonds.

S. C., Union—Bridge—Union County Board of Suprvs., D. V. Askew, Supvr., receives bids April 29 for \$145,000 notes.

Tenn., Bristol—Buildings—City, R. J. Mottern, Mayor, receives bids May 10 for \$75,000 bonds; \$50,000, school; \$25,000, jail.*

Tenn., Jackson—Auditorium—City Comm. plans bond election.

Tenn., Knoxville—Revenue Anticipation—Dept. of Public Service, Alexander Harris, Director, plans \$1,500,000 notes.

Tenn., Nashville—Revenue—City plans selling \$1,500,000 bonds. Address City Clk.

Tenn., Nashville—City, S. H. McKay, Clk., plans issuing \$275,000 bonds to repair Sparkman Bridge, and \$1,200,000, not to exceed 6%, bonds for filter plant.

Tenn., Trenton—School—City, T. K. Hapfel, Mayor, plans bond issue.

Tenn., Trenton—School Indebtedness—Gibson County plans \$400,000 bond issue to retire County and school warrants outstanding. Address County Commrs.

Tenn., Smithville—Courthouse—DeKalb County voted \$50,000 bonds. Address County Commrs.

Tenn., Union—Indebtedness, Road—Obion County, H. C. Stanfield, County Judge, calls election June 4 on \$300,000 bonds.*

Tex., Anahuac—Road—Chambers County Commrs. may call election on \$100,000 bonds.

Tex., Amarillo—School—Amarillo Independent School Dist., Geo. M. Waddill, Sec., voted \$600,000 4½% bonds.*

Tex., Austin—Courthouse—Travis County, Geo. S. Mathews, County Judge, contemplates calling \$500,000 bond election soon.

Tex., Beaumont—Road, Bridge—Jefferson County Commrs. will call election on about \$5,000,000 bonds; \$1,050,000, bridge; \$2,000,000, Road Dist. No. 1; B. B. Johnson, County Judge.

Tex., Beaumont—Fair Grounds—City Comm., Ollie J. Boyd, Mgr., may call election in May or June on \$150,000 bonds.

Tex., Beaumont—School—City Comm., Ollie J. Boyd, Mgr., has tentatively agreed to call \$450,000 bond election.

Tex., Burnet—School—Burnet Independent School Dist. voted \$25,000 bonds. Address Board of Education.*

Tex., Corsicana—Road—Navarro County Commrs. Court calls election June 4 on \$2,600,000 Consolidated Road Dist. No. 1 bonds.

Tex., Cotulla—Road—LaSalle County, G. A. Welhausen, County Judge, calls election May 7 on \$600,000 bonds.

Tex., Cuero—City considering bond issue to purchase Mohawk Club, erect elevated water tower, and retire \$10,000 street paving bonds; Walter Reiffert, Chmn. Finance Committee.

Tex., Galveston—Street—City votes May 10 on \$200,000 bonds; C. A. Holt, City Engr.

Tex., Goliad—Road—Goliad County, J. A. White, County Judge, calls election May 28 on \$1,250,000 bonds.*

Tex., Harlingen—Municipal Improvement—City Comm. calls election May 3 on \$400,000 bonds; \$135,000, street; \$100,000, auditorium; \$110,000, water and light system; \$25,000, park improvement; \$15,000, sewer; \$15,000, city hall and jail.*

Tex., Houston—Municipal Improvement—City, O. F. Holcombe, Mayor, receives bids between June 1 and 15 for \$3,525,000 bonds; \$500,000, water works; \$400,000, drainage; \$100,000, sanitary sewers; \$200,000, sewage disposal plant; \$75,000, fire and police stations; \$75,000, fire alarm and traffic light extensions; \$100,000, gravel; \$100,000, hospital additions; \$500,000, civic center; \$800,000, 1926 Turning basin roadways; \$200,000, 1926 bridge; \$100,000, general improvement; \$275,000, refund; J. C. McVea, City Engr.*

Tex., Houston—Park, Emergency—City, O. F. Holcombe, Mayor, probably will vote on \$100,000 bonds; \$65,000, to purchase addition to Memorial Park; J. C. McVea, City Engr.

Tex., Jordan—Road—Atascosa County, Earl D. Scott, County Judge, calls election May 14 on \$250,000 Road Dist. No. 2 bonds; Jas. V. Curnette, County Engr.

Tex., Lubbock—Indebtedness—City Comm. calls election May 3 on \$650,000 bonds.

Tex., Merkel—Paving—City, N. D. Cobbs, Mayor, voted \$20,000 bonds.*

Tex., Mission—Municipal Improvement—City votes May 18 on \$100,000 bonds; \$40,000, fire station; \$30,000, storm sewers; \$30,000, paving. Address City Clk.

Tex., New Boston—Water Works—City, J. H. Darby, Mayor, voted \$65,000 bonds.*

Tex., Odessa—School—Odessa School Dist. voted \$25,000 bonds. Address Pres. Board of Trustees.

Tex., Paducah—Funding—City may vote on \$32,000 bonds. Address City Clk.

Tex., Pelly Branch, Goose Creek—Sewer—City votes May 14 on \$35,000 bonds. Address City Clk.*

Tex., Plemons—Road—Hutchinson County defeated \$1,250,000 bond issue; W. R. Goodwin, County Judge. Lately noted election April 16.

Tex., San Angelo—Municipal Improvement—City Comm., E. V. Spence, Mgr., calls election June 4 on \$800,000 bonds; \$250,000, city hall and auditorium; \$355,000, city's share for paving; \$75,000, four sub fire stations and equipment; \$25,000, fire alarm system; \$25,000, incinerator; \$20,000, sewer extensions; \$50,000, to convert 6% sewer refunding bonds into 5% bonds; I. J. Cutsinger, City Atty.*

Tex., Van Horn—School—Van Horn Common School Dist. No. 1 voted \$35,000 bonds; J. C. Hunter, Culberson County Judge.*

Tex., Weslaco—City Hall—City, M. F. Armstrong, Jr., Atty., receives bids May 2 for \$35,000 6% bonds.*

Tex., Wichita Falls—Road—Wichita County Commrs. Court, E. W. Nicholson, County Judge, may call \$1,000,000 bond election.

Virginia—Commonwealth of Virginia, Harry F. Byrd, Governor, plans issuing \$2,468,605, not to exceed 4½%, coupon bonds, prior to Jan. 1, 1928.

Va., Bedford—School—Town voted \$110,000 bonds; receives bids May 5 for \$110,000 5% \$1000 denom. bonds; C. A. Moore, Treas.-Clk.*

Va., Danville—School—School Board advocating \$450,000 bond issue.

W. Va., Alderson—School—Alderson Independent School Dist. voted \$100,000 bonds. Address Pres. Board of Trustees.

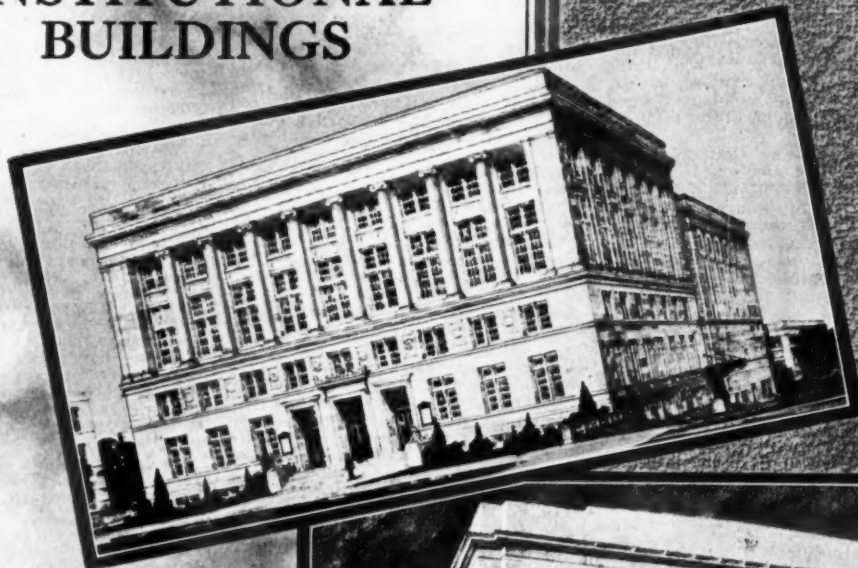
W. Va., Clarksburg—Central Fire Station—City, D. H. Hamrick, Clk., voted \$80,000 bonds; defeated \$500,000 bridge and \$50,000 street improvement bonds.*

W. Va., Fairmont—School—Fairmont Independent School Dist. voted \$940,000 5% \$1000 denom. bonds; Otis G. Wilson, Supt. of Schools.*

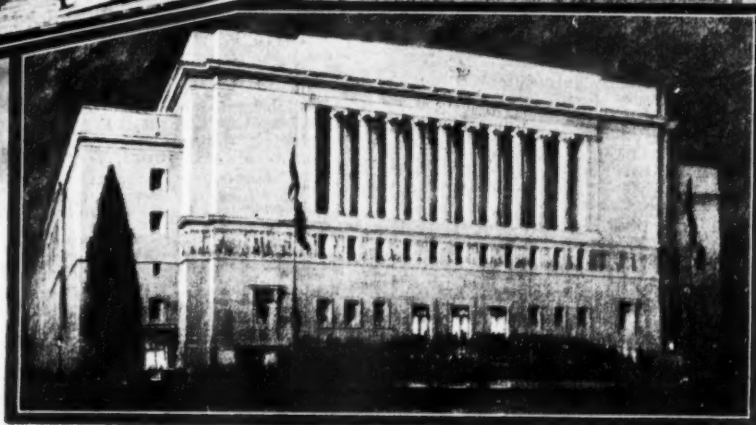
(Continued on page 122)

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

FINANCING INSTITUTIONAL BUILDINGS



THE buildings shown on this page are typical of the many institutional structures whose first mortgage bonds have been underwritten by the First National Company of St. Louis. Many of these are among the most important buildings of this nature in the South, Southwest and West. We would be glad to correspond with you in regard to this phase of our complete financing service.



FIRST NATIONAL COMPANY

INVESTMENT



DIVISION

ST. LOUIS

FINANCIAL NEWS

(Continued from page 120)

W. Va., Huntington—Road, Bridge—Cabell County Comms. will call election May 19 on \$275,000, Barboursville bonds; R. S. Douthat, Clk.

W. Va., Mannington—Water Works—City, F. A. Burt, Mayor, calls election May 2 on \$100,000 bonds.

W. Va., Mannington—Improvement—City votes May 2 on bonds; F. A. Burt, Mayor.

W. Va., Parkersburg—Hospital—W. E. Stout, Mayor, and Physicians and members of Parkersburg Academy of Medicine, interested in bond issue.

W. Va., Spencer—Road—Roane County Court considering \$175,000 bond election in Geary Dist. Address County Comms.

W. Va., Wellsburg—Board of Education calls election May 24 on \$350,000 bonds.

W. Va., Wheeling—Culvert—Sewer Committee recommended \$16,000 bond issue; \$12,000, for Seabrights lane; \$4,000, on Willow Ave. Address City Clk.

Bond Issues Sold

Ala., Birmingham—Road—Jefferson County Board of Revenue, Lacy Edmundson, Chmn., sold \$300,000 bonds to Marx & Co. and Ward, Sterne & Co. on basis of 5½% net.

Ala., Birmingham—Refunding—Jefferson County sold \$115,000 4¼% bonds to Steiner Brothers, Birmingham.

Ala., Gadsden—Street—City, H. C. Thomas, Clk., sold \$28,000 6% bonds to Ward, Sterne & Co., Birmingham, at premium of \$345.*

Ala., Mobile—School—Mobile County School Board sold \$250,000 5¼% bonds to First National and Merchants Banks, Mobile, at 96 and accrued interest.

Ark., McGehee—Paving—City sold \$271,500 bonds to Merchants and Planters Title and Investment Co., Pine Bluff, and Simmons National Bank, McGehee.

Fla., Panama City—Improvement—City sold \$77,000 6% bonds to G. B. Sawyer & Co., Jacksonville.

Fla., St. Augustine—Refund—City, C. G. Oldfather, Auditor, sold \$48,000 5% Series A bonds to E. H. Rollins & Sons, New York, at premium of \$336.*

Ky., Henderson—Road—Henderson County, R. T. Crafton, County Judge, sold \$200,000 4¼% bonds to J. C. Wilson, Louisville, at premium of \$3155.

La., New Iberia—Road—Iberia Parish Police Jury, Marcus DeBlanc, Sec., sold \$68,500 6% Sub-Road Dist. No. 2 of Road Dist. No. 7 bonds to Interstate Trust and Banking Co., New Orleans.*

La., Winnfield—Water Works, Sewer—City, H. T. Willis, Clk., sold to Sutherland, Barry & Co., New Orleans, \$147,000 5¼% bonds; \$44,000, water, at par, accrued interest, plus \$682 bonus; \$103,000, sewer, at par, accrued interest, plus \$566.50 bonus.*

Miss., Gulfport—Drainage—City, Joseph W. Milner, Mayor, sold \$30,000 5% \$1000 denom. bonds to First National Bank and Bank of Gulfport, at premium of \$100.*

Miss., Hattiesburg—School—Forrest County Board of Suprvs. sold \$35,000 5¼% Leaf River Consolidated School bonds to Sutherland, Barry & Co., New Orleans, La., at par, accrued interest, expense, local payment and premium of \$285.*

Miss., Poplarville—School—Pearl River County Board of Education may sell \$20,000 Industrial Consolidated School Dist. bonds to Meridian Finance Corp., Meridian, Miss., at par, accrued interest and expenses.*

N. C., Asheville—Public Improvement—City, E. G. Thompson, Sec.-Treas., sold \$2,000,000 4¼% bonds to syndicate composed of Caldwell & Co., Nashville, Tenn.; First National Bank, New York; Redmond & Co., Baltimore, Md.; B. J. Van Ingen & Co., and Stone, Webster & Blodgett, New York, at \$2,036,400; J. H. Cathey, Mayor.*

N. C., Lexington—School—School Trustees sold \$15,000 5¼% Reedy Creek Township School Dist. bonds to E. A. Gessler & Son, St. Louis, Mo., at \$15,250 and accrued interest.

N. C., Mooresville—School Refunding—Mooresville Graded School Dist., Roy K. McNeely, Treas., sold \$30,000 4¼% bonds to Stranahan, Harris & Catis, Inc., Toledo, O., at premium of \$111.*

N. C., Morganton—Public Improvement—Town, L. E. Smith, Clk., sold \$35,000 5% bonds to Assel, Goetz & Moerlin, Cincinnati, O., at \$35,408 and accrued interest.*

S. C., Clover—School—Robinson-Humphreys Co., Atlanta, Ga., purchased \$20,000 5¼% York County School Dist. No. 37 bonds at premium of \$100.

Tenn., Alton Park Branch, Chattanooga—Municipal Improvement—City, W. C. Kountz, Clk., sold \$225,000 5¼% bonds to Little, Wooten & Co., and Caldwell & Co., Nashville.*

Tex., Brackettville—Road—Kinney County Comms. Court, John H. Stadler, County Judge, sold \$150,000 5% \$1000 denom. bonds to C. W. Arlitt, Austin.*

Tex., Dayton—School—City sold \$130,000 5¼% Dayton Independent School Dist. bonds to J. E. W. Thomas & Co., Dallas, at premium of \$735.

Tex., Harlingen—Municipal Improvement—City Comm. sold \$400,000 5¼% bonds to Blanchett, Bowman & Wood and W. L. Slayton & Co., both Toledo, O.; subject to result of election May 3.

Tex., Honey Grove—Water Works—City sold \$100,000 bonds to George L. Simpson, Dallas, at par.

Tex., Lockhart—Road—Caldwell County Comms. Court purchased \$15,000 bonds at par.

Va., Charlotte Courthouse—School—School Board sold \$40,000 bonds to C. A. Bray of Bray Brothers Co., Greensboro, N. C.

Va., Staunton—Refunding—City, L. H. Stoddard, Clk., sold \$150,000 4¼% bonds to Stein Bros. & Boyce, Baltimore; Taylor, Wilson & Co., Cincinnati, O., and Morris Mather & Co., Chicago, Ill., at 101.29 and accrued interest.*

Building and Loan Associations

Ala., Dothan—Southeast Alabama Building and Loan Assn., capital \$1,500,000, incorporated; E. O. Jones, Pres.; W. R. Whatford, Treas.; E. M. Hightower, Sec.

Va., Blacksburg—Montgomery County Building and Loan Assn., organized; R. A. Rannels, Pres.; P. R. Reynolds, Sec.; Jas. W. Bland, Treas.

New Financial Corporations

Ala., Bessemer—Morgan Plan Bank of Bessemer, 322 Nineteenth St., capital \$50,000, opened; Hon. B. G. Perry, Pres.; Mayor R. P. McTyre, V.-P.; John W. Brooks, Sec.

Fla., Lake City—W. B. Burch, I. P. McWhite and Dr. L. C. Whitlock, interested in organizing bank; replace People's Bank just closed.

Fla., St. Petersburg—Lewis Investment Co., Inc., capital \$50,000, chartered; R. G. Blane, 925 Fifth Ave. N.; W. F. Way, Citizens Natl. Bank Bldg.; Daisy Barfield.

Ga., Atlanta—Bank of Commerce of Atlanta, capital \$1,000,000, incorporated; Walter A. Sims, Fourth Natl. Bank Bldg.; B. E. Yancy, S. Fairview Rd.; N. M. McDill.

La., New Orleans—Morris Plan Bank, Masonic Temple Bldg., St. Charles and Perdido St., chartered; Gilbert J. Fortier, Hibernia Bldg.

Mo., Joplin—Southwest Building and Loan Assn., Bartlett Bldg., near Fourth and Main St., re-organized; Arch McDonald, Pres.; L. W. McDonald, Sec.; J. S. McCallum, Mgr.

N. C., Charlotte—Charlotte Finance and Real Estate Co., capital \$100,000, incorporated; S. Q. and Ora H. McGraw, J. D. Hobbs, all Mount Holly, N. C.

S. C., Lake City—Planters Bank, capital \$25,000, organized; Dr. W. S. Lynch, Pres.; G. R. Bowen, V.-P.; L. C. Whitlock; replace Peoples Bank just closed.

Tex., Houston—James Bute Investment Co., capital \$600,000, incorporated; John Bute, Pres.; 3904 Day St.; D. W. Michaux, V.-P., One Chelsea Place; R. A. Welch, Sec.-Treas., Beaconsfield Apts.

Va., Bristol—Dickey Investment Co., Inc., capital \$15,000 to \$50,000, chartered; Ernest Dickey, Pres.; Dorothy D. Dickey, Sec.; W. H. Rouse.

Va., Norfolk—Beaman, Lawson & Co., Inc., chartered; Robert P. Beaman, Pres., 933 Langley Rd.; Nathaniel Beaman, Sec., Wayne Apt.; Charles H. Labeth, Dresden Apt.

Va., Norfolk—Flournoy Finance Co., Inc., capital \$20,000 to \$100,000, chartered; Seaborn J. Flournoy, Pres.; W. E. Flournoy, Jr., Sec., 62 Washington St., both Portsmouth.

Citizens Building and Loan Assn., Harry Tucker, Pres., Raleigh, N. C., with resources

of \$168,651, plans merging with Raleigh Building and Loan Assn.; R. S. Busby, Pres.; resources, \$1,164,863.

John W. Hooser, Thomas Bldg.; G. C. Dunn, 6431 Glenn Rose Ave., both Dallas, Tex., and J. R. Dunn, Ferris, Tex., reported, purchased Guaranty Bond Bank, 226 S. Main St., Jacksonville, Tex.; capital \$25,000; W. J. Weatherby, Pres.

Lexington Building and Loan Assn., J. T. Simmons, Sec. and Gen. Mgr., Lexington, Ky., plans increasing capital, \$1,000,000 to \$2,000,000; S. A. Glass, Pres.; John C. Nichols, Treas.

Franklin Bond and Mortgage Co., Wm. White, 25 S. Second St.; E. B. Mercere, W. N. Ford, 1364, Vinton St., Memphis, Tenn., increased capital, \$200,000 to \$250,000.

George W. Page, Bank Commissioner of the State of Maryland, has submitted to Governor Ritchie the 17th annual report of his department, showing the condition of state banks, trust companies and savings institutions in the Commonwealth for the period ending February 1, 1927. These financial institutions, numbering 160, of which 15 are savings institutions, have total resources of more than \$613,412,000. There is a separate report for each bank.

First State Bank, W. P. Blanton, Pres., Bowie, Tex., and First National Bank, J. A. Coker, Pres., consolidated; J. N. Fulcher, Cashier.

Home Building and Loan Assn., A. J. Bauer, Sec., Jefferson City, Mo., increased capital \$2,500,000 to \$3,500,000.

Liberty National Bank, P. W. Goebel, Pres., Kansas City, Mo., purchased commercial, bond and safe deposit business of Peoples Trust Co., and occupy Grand Ave. Floor of R. A. Long Bldg., present location of Peoples Trust Co.; increase capital, \$500,000 to \$750,000, and surplus fund to \$380,000; J. E. Hutt, Chmn. of Board; J. G. Kennedy, Cashier; Peoples Trust Co. will continue in mortgage and loan business, with offices on Third floor, Security Bldg., Eleventh and Main St.

Bank of Blacksburg, G. L. Goode, Pres., Blacksburg, S. C., re-opened as branch of American State Bank, D. C. Ross, Pres., Gaffney, S. C.; capital \$150,000; C. L. Parker, Cashier.

The Economic Basis of Fair Wages. By Jacob D. Cox, Jr. New York: The Ronald Press Company. 1926. Pp. 139. Cloth. Gilt. \$3.50.

The author of this work is president of the Cleveland Twist Drill Company, and he has evidently given serious thought and much time to its preparation. In the preface he says: "More and more the emphasis is shifting in the struggles of the modern world from political questions to economic or industrial ones, and the great conflicts of the future, whether or not they are political in their outward forms, will be in reality conflicts over economic or industrial issues." There are seven chapters in the book, the headings of which, respectively, from one to seven are as follows: Statement of the Problem. Wages and Living Costs. The Laws of Money Wages. The Laws of Prices. The Law of Real Wages, or the Standard of Living. What are Fair Wages? Improving the Standard of Living. These captions afford a general idea of the course of Mr. Cox's narrative and arguments. He deals with his subjects in an interesting and compelling style and the volume will repay perusal if such perusal is attentive and thoughtful.

Pennsylvania Pumps and Compressors.

The Pennsylvania Pump and Compressor Company, Easton, Pa., have published a new bulletin describing their single-stage air compressors and vacuum pumps. The publication also includes a description of their Class 3-AE direct synchronous motor-connected air compressors. The bulletin is No. 132.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Knoxville Near Top In Hosiery Industry

With 1,469 knitting machines and 56,000 spindles, Knoxville stands second in the south in the hosiery industry.

With 176,808 spindles, in four large mills, it leads the state of Tennessee in the cotton mill industry.

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of Knoxville, Tennessee

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The Corporation Department of Caldwell & Company offers a helpful advisory service to Southern industries which desire to make plant extensions, to expand operation, to increase their working capital, or to make any readjustments in their capital structure.

All communications should be addressed to the Corporation Department

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Offices in Principal Cities

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Bethlehem Steel's New Grey Mill in Operation.

The Bethlehem Steel Company has announced the completion of its grey mill installation for the manufacture of wide flange structural sections at its Lackawanna plant, Lackawanna, New York. This mill is similar to the two grey mills at Bethlehem but with motor drives instead of steam. It is complete in every respect from the soaking pits and 54-inch blooming mill to the cold saws and shipping yard. Its schedule covers a full range of Bethlehem beams, girders and columns. Construction was begun eleven months ago and the mill started on its operating schedule Monday, April 11, the first steel shipment to the trade going forward on April 12.

District Engineer Appointed.

H. R. Albion has been appointed District Engineer in charge of the Jacksonville Office of the Portland Cement Association. Before entering the association employ in 1926 as a field representative in Florida, Mr. Albion had wide experience in engineering practice, including five years as senior partner of the engineering firm of Albion & Ewing.

Moore Dry Kilns Ordered.

A report from the John L. Rhoads Company of Reading, Pa., says they have let a contract to the Moore Dry Kiln Company, Jacksonville, Fla., to install three fully equipped dry kilns of the charge, end-piling type, designed for drying hardwoods. An order for special fireproof doors has also been placed with the Jacksonville company.

White Company's March Business.

March deliveries of White trucks and busses were greater than any month's volume since last September, which was the largest September in the history of the White Company, Cleveland, Ohio. There was an increase in March of 74.5 per cent over February deliveries, says Walter C. White, president, who also reports March sales correspondingly increased. The effect of the new merchandising policy, with reduced prices on light-duty trucks, announced at the end of February, is seen in an increase of 23 per cent in March orders over sales of the same model trucks during March of last year. In another capacity class, to which White recently added a new truck model, orders showed a gain of 67 per cent over sales of this class a year ago.

Change of Firm Name.

Frank B. Perry, Inc., engineers and architects, are now operating under this firm name in place of the old firm of Perry & Whipple. Their new location is at 44 Franklin street, Providence, R. I.

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MANUFACTURERS RECORD

The Industrial Position of the South Carolina Territory served by subsidiaries of General Gas & Electric Corporation

- Many large corporations, each representative in its field, have established manufacturing plants in that portion of South Carolina served by subsidiaries of General Gas & Electric Corporation.

The industrial growth, which has been particularly striking during the past few years, indicates that manufacturers are rapidly taking advantage of the exceptional opportunities offered by this section. An outstanding factor in this expansion is the availability in practically unlimited quantities of a variety of raw materials. Another prime consideration is the abundance of efficient and satisfied labor.

Other factors which contribute to the favorable background for industry are ideal climate, splendid transportation facilities, pure water, and reliable and abundant electric power supply.

Our Industrial Development Division offers its services to manufacturers who may be considering the opening of plants in the South. Detailed facts and figures on industrial conditions will be furnished upon request.

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50 PINE STREET

NEW YORK

ATLANTIC COAST LINE RAILROAD COMPANY

To the Stockholders of the Atlantic Coast Line Railroad Company:

The Board of Directors of the Atlantic Coast Line Railroad Company respectfully submits the following report for the year ended December 31, 1926:

INCOME ACCOUNT.

	1926	1925	
Operating revenues.....	\$97,086,517.07	\$93,997,697.79	Inc. \$3,088,819.28
Operating expenses.....	70,791,770.46	64,966,121.44	Inc. 5,735,649.02
Net operating revenues.....	\$26,294,746.61	\$29,031,576.35	Dec. \$2,646,829.74
Railway tax accruals.....	6,725,000.00	6,600,000.00	Dec. 125,000.00
Net operating revenues, less taxes.....	\$19,569,746.61	\$22,431,576.35	Dec. \$2,771,829.74
Uncollectible railway revenue.....	22,630.12	20,033.11	Inc. 2,597.01
Total operating income.....	\$19,592,376.73	\$22,451,609.46	Dec. \$2,774,232.73
Non-operating income.....	6,779,787.50	5,958,151.18	Inc. 821,636.32
Gross income.....	\$26,372,164.23	\$28,409,760.64	Dec. \$1,952,796.41
Dividends declared from non-operating income.....	2,057,586.00	1,371,724.00	Inc. 685,862.00
Interest and rentals.....	\$24,359,317.99	\$26,997,970.42	Dec. \$2,638,652.43
Miscellaneous deductions from income.....	7,090,674.12	6,975,979.14	Inc. 114,694.98
Net income.....	\$17,268,643.87	\$20,021,991.28	Dec. \$2,753,347.41
	2,866,356.94	2,910,572.81	Dec. 104,215.87
Net income.....	\$14,402,286.93	\$17,111,418.47	Dec. \$2,649,131.54

INTEREST AND RENTALS.

Interest on funded debt.....	\$5,997,542.00	\$6,031,280.89
Interest on certificates of indebtedness.....	5,404.00	5,404.00
Interest on ten-year secured notes of May 15, 1920.....	420,000.00	420,000.00
Interest on equipment trust notes of January 15, 1920.....	230,725.25	256,243.25
Dividend on equipment trust certificates of February 1, 1921.....	196,625.00	216,125.00
Dividend on equipment trust certificates of February 1, 1925.....	190,051.87	
Interest on Brunswick & Western income bonds.....	250.00	650.00
Rentals.....	50,076.00	46,276.00
	\$7,090,674.12	\$6,975,979.14

DIVIDENDS.

Dividends were declared as follows during the year:	
To Preferred Stockholders, 5 per cent.....	\$9,835.00
To Common Stockholders, 7 per cent.....	\$4,801,034.00
To Common Stockholders, 3 per cent extra from non-operating income.....	2,057,586.00
Total amount of dividends to Common Stockholders.....	\$6,858,620.00

OPERATING REVENUES.

1926	1925	INCREASE	PER CENT
Freight.....	\$68,901,637.40	\$64,657,121.06	5.17
Passenger.....	21,257,076.85	22,042,717.53	3.56*
Excess baggage.....	153,682.97	162,453.56	5.40*
Mail.....	1,619,617.77	1,347,207.88	20.22
Express.....	2,827,798.32	2,835,343.71	0.27*
All other transportation.....	885,391.34	701,778.36	26.16
Incidental and joint facility.....	2,341,262.22	2,251,075.69	4.01
Total.....	\$97,086,517.07	\$93,997,697.79	3.29

*Decrease.

OPERATING EXPENSES AND TAXES.

1926	1925	INCREASE	PER CENT
Maintenance of way and structures.....	\$12,018,939.26	\$10,820,231.22	20.32
Maintenance of equipment.....	18,518,916.17	17,544,833.96	5.55
Traffic.....	1,878,173.05	1,724,862.71	8.89
Transportation.....	34,469,600.31	32,310,062.17	6.68
Miscellaneous operations.....	434,483.99	804,997.35	3.66
General expenses.....	2,949,717.87	1,875,395.88	9.30
Transportation for investment—Credit.....	68,056.29	114,201.85	40.41*
	\$70,791,770.46	\$64,966,121.44	8.83
Railway tax accruals.....	6,725,000.00	6,600,000.00	1.89
Total.....	\$77,516,770.46	\$71,566,121.44	8.19

*Decrease.

GENERAL REMARKS.

In the previous report reference was made to an Agreement and Lease, dated February 1, 1926, under which your Company agreed to lease and purchase certain equipment from the Safe Deposit & Trust Company of Baltimore, Trustee. All of the said equipment was delivered to your Company during the year 1926, and to provide for approximately 80% of the cost of the equipment, the Trustee issued and sold \$5,085,000 of four and one-half per cent. share certificates, of which \$339,000 mature February 1 each year from 1927 to 1941, inclusive.

Under authority given during 1926 by the Interstate Commerce Commission, your Company has acquired sufficient additional shares of stock of the Columbia, Newberry & Laurens Railroad Company to constitute control of that Company by your Company. The lines of the Columbia, Newberry & Laurens Railroad Company extend from Columbia to Laurens, S. C., a distance of 74.93 miles, and form a connecting link between the line of your Company at Columbia, S. C., and the line of the Charleston & Western Carolina Railway Company at Laurens, S. C. The Charleston & Western Carolina Railway Company is affiliated in interest with your Company and connects at Spartanburg, S. C., with the line of the Clinchfield Railroad, (Carolina, Clinchfield & Ohio Railway system), which is jointly leased by your Company and the Louisville & Nashville Railroad Company.

In the report for the previous year reference was made to the agreement entered into by your Company with Committees representing the bondholders of the Atlanta, Birmingham & Atlantic Railroad Company, then in receivership, that if said bondholders' Committees would reorganize the Atlanta, Birmingham & Atlantic Railroad Company through sale of its property under foreclosure proceedings and the formation of a new corporation with capitalization for the present of only preferred and common stock, then your Company would agree to acquire the total issue of common stock of the new company and would guarantee both principal of and, after the expiration of one year from the date on which the new company took possession of the property, five per cent. dividends upon \$5,180,300 of preferred stock of the new company. During the year 1926 the property of the Atlanta, Birmingham & Atlantic Railroad Company was so purchased at foreclosure by representatives of the holders of its bonds who formed a new company under the laws of Georgia known as the Atlanta, Birmingham and Coast Railroad Company, and the latter Company, under authority from the Court and the Interstate Commerce Commission, took over the property formerly owned by the Atlanta, Birmingham & Atlantic Railroad Company at midnight December 31, 1926. The Interstate Commerce Commission having also authorized

the acquisition by your Company of control of the Atlanta, Birmingham and Coast Railroad Company, on January 4, 1927, your Company paid in cash and assumed or provided for certain outstanding notes, debts and obligations of the old company and of the Receiver, and executed an agreement to guarantee the principal of and dividends to accrue from January 1, 1928, at the rate of five per cent. per annum on \$5,180,300 par value of non-voting preferred stock of Atlanta, Birmingham and Coast Railroad Company.

For these cash payments and assumption of notes, debts and obligations, aggregating approximately \$1,000,000, and for the guarantee of principal and dividends upon said \$5,180,300 of preferred stock, your Company did accept payment by the receipt of 150,000 shares of Atlanta, Birmingham and Coast Railroad Company's no par value common stock. The lines of the Atlanta, Birmingham and Coast Railroad Company, about 637 miles, are being operated separately by that Company's own corporate organization.

Just prior to the close of the year 1926, your Company was served by the Bureau of Valuation of the Interstate Commerce Commission, as required by Act of Congress, with its report of the tentative valuation of your Company's property used in transportation service. The tentative value as of June 30, 1917, as arrived at by the Bureau is considerably less than the true value of the property at that date as found after careful appraisal and investigation by the officers of your Company. Protest has been filed with the Bureau of Valuation against accepting this tentative valuation and hearing will be held by the Bureau at which your officers will present such evidence as it is hoped, will require that the Bureau's final report on the valuation of your property used in transportation service, when issued, will reflect the actual value of that property as of date of valuation, June 30, 1917.

Installation of automatic train control from the James River Bridge, near Richmond, Va., to Rocky Mount, N. C., referred to in the previous report, was approved by the Interstate Commerce Commission on March 25, 1926, with several minor suggested corrections. The work on the Fayetteville District is in progress and is expected to be completed to Florence, S. C., in the near future. This will complete the installation of automatic train control over two districts of your lines, as required by orders of the Interstate Commerce Commission.

Construction of second track on your Company's lines was completed and the track placed in service during the year 1926, as follows:

	Miles
At Bennett (Ashley Junction), S. C.....	0.15
Monterey to Yukon, Fla.....	5.65
Orange City Junction to Haines, Fla.....	10.54
Dunnellon to Dade City, Fla.....	54.88
Total.....	74.82

There is now in progress the construction of additional second track on your lines from:

	Miles
Winter Park to Orlando, Fla.....	6.30
Dade City to Richland, Fla.....	5.14
Total.....	11.44

The work will, it is expected, be finished in 1927.

In December, 1926, the construction of a connecting line between Perry and Yule, near Monticello, Fla., a distance of 40.17 miles, was completed and the track placed in operation. Work on the connecting line between Thonotosassa and Richland, near Dade City, Fla., about 17.38 miles, had not been completed at the close of the year 1926, but it is expected the new line will be placed in operation this Summer. When this connecting line and the second track from Richland to Dade City, Fla., above mentioned, have been completed and placed in operation, your Company will have a short line from Tampa and other points on the West coast of Florida, via Perry, Fla., Thonotosassa and Albany, Ga., to the West, which line will be double-tracked from Richland to Dunnellon, Fla., a distance of 60.12 miles. The reconstruction and laying with heavier rail of the portion of the existing lines forming part of the new short line will also be completed during the year 1927.

In the previous report mention was made of extension of the Tampa Southern Railroad from Sarasota to connection with your Company's line near Fort Ogden, Florida, about 40.30 miles. That part of said extension from Sarasota to near Eutaw, Florida, a distance of 10 miles, was completed in December, 1926, and it is expected the entire project will be completed in the near future.

Reference was made in the previous report to extension of Fort Myers Southern Railroad from Bonita Springs to Marco Island, Florida, 29 miles. Work on that part of the extension from Bonita Springs to Naples, Florida, 11.67 miles, was completed in October, 1926, and the entire work will be completed shortly.

In the previous report reference was made to the extension of your Company's line from Immokalee to Deep Lake, Fla., about 27 miles. The contract has been let for this work and it is now under construction.

During the year 1926, a modern five-story fireproof office building at Savannah, Ga., for use as division headquarters for the officers of your Company and their assistants, was constructed to replace the obsolete and smaller office building in that City.

In order to provide much needed facilities in South Florida for making general repairs to locomotive and car equipment, a complete shop plant, with equipment and tools of the most modern design, was constructed at Uetia, near Tampa, Fla., during the year 1926. The shops will give employment to over one thousand men and will handle all heavy repairs to equipment in service on the lines of your Company in South Florida which have been heretofore made at the shops at Waycross, Ga.

In September, 1926, a severe hurricane swept across South Florida causing much loss of life and considerable damage to property and citrus fruit in the path of the storm, especially near Miami, Fort Lauderdale, Clewiston, Moore Haven and Fort Myers. The greatest loss of life due to the storm was at Moore Haven, on your Haines City Branch, where the levees on Lake Okechobee were destroyed and the wind driven waters of the Lake flooded the surrounding country. Every facility of your Company was placed at the disposal of the American Red Cross and the various Committees and organizations which promptly engaged in the relief and rehabilitation of the inhabitants of the storm area. Train service on your lines, where interrupted by washouts, was restored to normal as promptly as the receding waters would permit, and there was no serious damage to the property of your Company.

Since the close of the year 1925, application was made to the Interstate Commerce Commission for authority to issue and sell \$3,809,000 of General Unified Mortgage Series "A" 4½% Bonds, due June 1, 1964. The Commission has authorized the issue and the bonds have been sold. The proceeds will be used to reimburse the treasury of your Company for money expended in paying at maturity \$2,809,000 of various bonds heretofore issued by your Company or by companies now merged or consolidated with it, the liability with respect to which was assumed by your Company, and also to pay the outstanding \$6,000,000 of Ten-Year Secured Seven Per Cent. Gold Notes, issued by your Company May 15, 1920, which notes have been called for redemption at 103% and interest as of May 15, 1927.

Since the close of the year 1926 your Company has made application to the Interstate Commerce Commission for authority to lease the line of railroad of the Washington & Vandemere Railroad Company, extending from Washington, N. C., to Vandemere, N. C., a distance of 40.02 miles, for a term of 99 years from date yet to be fixed, at annual rental of not exceeding \$1,000 for corporate expenses and interest on \$720,000 of first mortgage 4½% bonds of said Company, which bonds mature February 1, 1947. Your Company is the owner of the entire issue, \$125,000, of stock of the Washington & Vandemere Railroad Company, and is sole guarantor of principal and interest of the \$720,000 of 4½% bonds of that Company.

Attention is called to the following statements submitted as a part of this report:

Roadway Operations.

Equipment.

Additions and Betterments charged to Cost of Road.

Additions and Betterments charged to Cost of Equipment.

Increase in Cost of Road and Equipment.

Accounting Department Statistics.

The Board of Directors acknowledges its appreciation of the support of the patrons of the Company and of the services of its officers and employees.

H. WALTERS, Chairman.

J. R. KENLY, President.

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Our SUR-F-ED process costs only \$6.00 a dozen. Try it. A trial order will convince you that it is the best Re-inking you can buy.

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ALONG the GULF, MOBILE & NORTHERN RAILROAD are extensive deposits of superior clays, suitable for the manufacture of high-grade pressed brick, in a variety of colors; vitrified paving brick, refractory brick and ordinary building brick.

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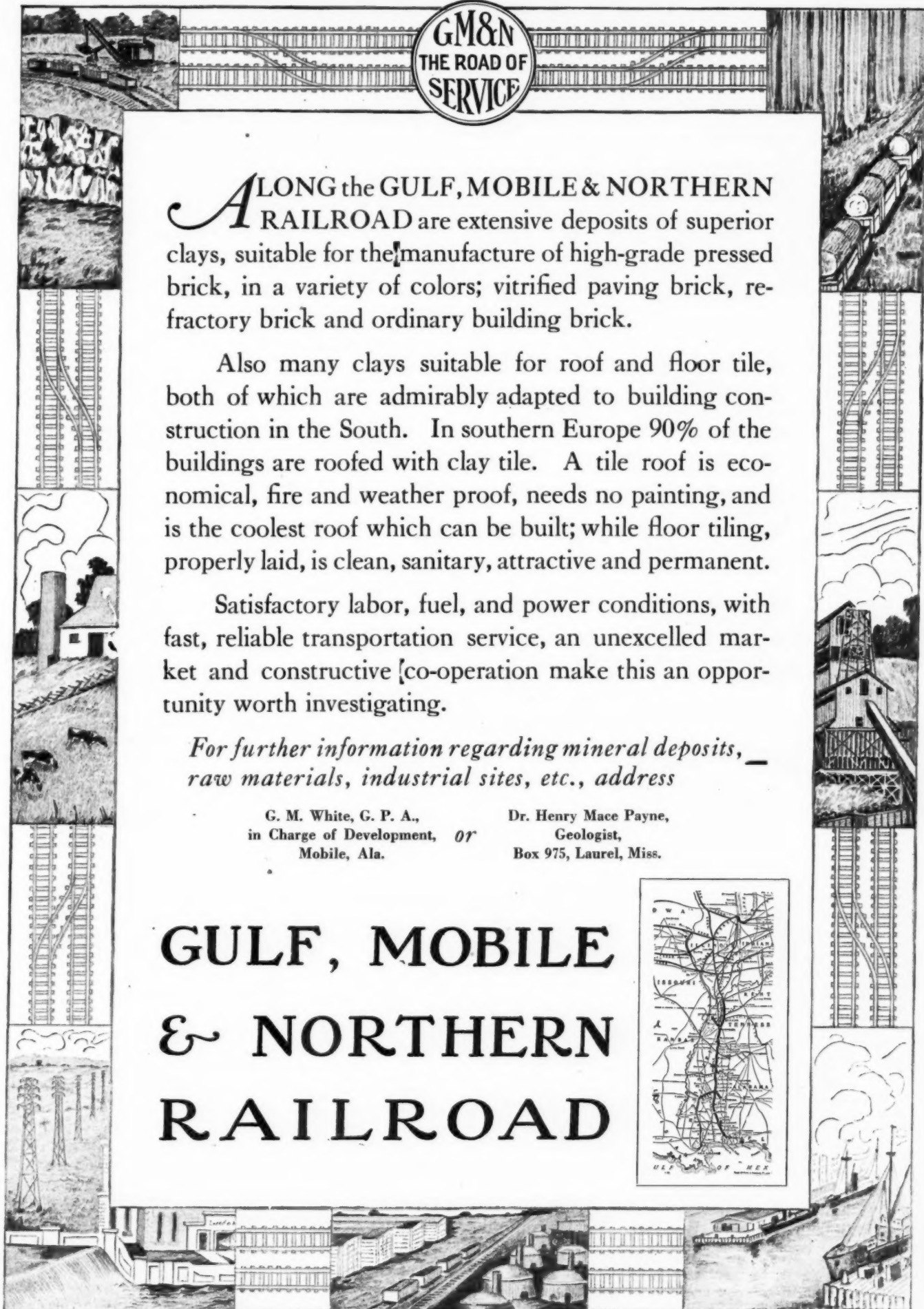
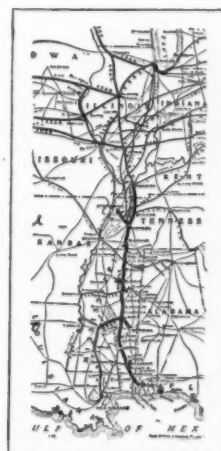
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in Charge of Development, 07
Mobile, Ala.

Dr. Henry Mace Payne,
Geologist,
Box 975, Laurel, Miss.

GULF, MOBILE & NORTHERN RAILROAD



Air Transportation Assured.

New Orleans, La., April 25—[Special.]—Air transportation between New Orleans and St. Tammany and Gulf Coast points is now assured. This will be the first regular air passenger service in this part of the country. Directors of the St. Tammany-Gulf Coast Airways, Inc., have elected officers and authorized an immediate ordering of ships. Officers are: M. D. Kostmayer, president; John Liuzza, vice-president; Edward Makofsky, secretary and treasurer; Carl Friedrichs, general counsel; E. E. Boggs, general manager. Three four-passenger Aeromarine seaplanes and one eight-passenger Fokker seaplane will be the first ships put into the air. The New Orleans airport will be at West End, where a floating landing pier will be built. Similar facilities will be developed at Mandeville, Slidell, Bay St. Louis, Pass Christian, Gulfport, Edgewater Park and Biloxi. The company is capitalized at \$50,000, all of which will be used in the purchase and operation of planes.

Contract for \$450,000 Furniture Factory.

Roanoke, Va.—Contract for the construction of factory buildings for the Johnson-Carper Furniture Company, recently organized here with C. A. Johnson, president, has been awarded to the T. J. Davis Building Construction Company of this city at \$116,000. Plans call for one unit, 150 by 350 feet, one story, of brick and steel, and one 150 by 300 feet, three stories, of brick and mill construction. Excavation has been started and the buildings are expected to be completed by September 1.

Consideration is now being given to machinery, plans calling for automatic conveyors to carry lumber from the yard to the various operations in the plant and thence to cars. Belting and shafts will be enclosed to prevent accidents and lumber will be dried by exhaust steam. Buildings and machinery will cost about \$450,000. Production of the plant will consist of bedroom furniture.

Houses for Alabama Road Camps.

J. A. Caddell of Montgomery has contract for portable frame buildings for convict road camps in Alabama. The contract calls for construction and delivery at Montgomery of the necessary sections, when bolted together, for six camps for living quarters. Each camp will accommodate 100 convicts. Approximately 400,000 feet of lumber will be required for the work and this is being furnished by the Marshall Mill and Lumber Company of Montgomery. Screens have been purchased from R. G. Brassell of Montgomery, and orders for other materials have been placed. Work on the houses is about 25 per cent complete.

Contract for Compress at Corpus Christi.

Corpus Christi, Texas.—General contract has been awarded by the Aransas Compress Company, J. K. Cain, president, to I. T. Wright & Co., San Antonio, for the erection of a high-density cotton compress and warehouse. The plant will cover a ground area of approximately 352,000 square feet. Sub-contracts have been awarded to the Hedges Roofing Company for roofing and asphalt floor; to the Alamo Steel and Supply Company for reinforcing steel, both of Houston, and to David Lupton's Sons, Dallas, for steel sash.

\$800,000 Apartment Building for Richmond.

Richmond, Va.—Application has been made to H. P. Beck, building inspector, by Frederick E. Nolting and Grey Skipwith for authority to erect an \$800,000 apartment building at 610-14 West Franklin street. Preliminary plans call for 54 suites.

Prison Construction Bill Passed.

Jefferson City, Mo.—An act to establish an intermediate reformatory has been passed by the Missouri Legislature and sent to Governor Baker for his approval. The bill provides for the purchase of 600 acres of farm land and the commissioners are empowered to have plans and specifications prepared for the buildings.

To Build \$1,000,000 Hotel at Waco.

Waco, Tex.—The Hilton Hotel Company of Dallas is having plans prepared by Lang & Witchell of that city for a 12-story hotel to be erected here at a cost of approximately \$1,000,000. The building will be of reinforced concrete and will contain about 200 rooms. It will occupy a site 100 by 165 feet, the building to cover an area 100 by 100 feet, while the remainder of the site will probably be used for a garage.

Purchase Iron Mountain Properties.

Ironton, Mo.—The purchase of a half-interest in the Iron Mountain properties here of the Iron Mountain Mining Co. by M. A. Hanna & Co. of Cleveland, Ohio, has been confirmed by L. A. Busby, president of the Iron Mountain company. The new company plans to operate and develop the properties, which include mining facilities and 15,000 acres of land. The production is about 1000 tons of iron ore per day.

New Orleans to Sell Bonds.

New Orleans, La.—Bonds in the amount of \$4,500,000, a portion of a \$7,500,000 issue voted last fall, will be sold by the Board of Liquidation on May 18. The interest rate is 4½ per cent and they will be issued in denominations of \$500 and \$1000, to mature over the period from 1929 to 1977. The funds will finance this year's enlarged paving program and provide for a municipal auditorium, criminal court building, garbage collection and disposal system and park extension.

Clearing Site for \$350,000 Bank Building.

Memphis, Tenn.—Work has begun on clearing the site at Monroe avenue and 2d street, this city, for the new banking house to be erected here by Marx & Bendorf at a cost of approximately \$350,000. The building will be three stories, 75 by 150 feet, of steel, concrete and stone, with rubber tile, terrazzo and mastic floors and composition roof. Hanker & Cairns are the architects and Kaucher, Hodges & Co. general contractors, both of Memphis.

Colonial Architecture for Army Posts.

The office of the Quartermaster General of the Army, Washington, D. C., is now working upon final plans for new buildings to be erected at Camp Meade, Md., and Fort Humphreys, Va., under the Army housing program. It is proposed to use an adaptation of Colonial architecture in the design of new buildings. There is available for construction of barracks at Camp Meade \$410,000. For construction at Fort Humphreys there is available \$500,000. It is expected that proposals for construction will be invited about May 15 of this year and that work will be under way in June.

The city of Fairmont, W. Va., T. V. Buckley, Mayor, and S. B. Miller, city engineer, has voted a bond issue of \$150,000 for sewer improvements and \$150,000 for the extension of distribution water mains.



PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close April 30, 1927.

Office of Constructing Quartermaster, Fort Bragg, N. C. Sealed bids in triplicate will be received until 10 A. M. April 30, 1927, for the construction of one standard Barracks Building, including the utilities thereto. Separate bids will also be received for the general construction, plumbing, heating and electrical work. Further information on application.

Bids close May 17, 1927.

SEALED BIDS, in triplicate, subject to the conditions contained herein, will be received until 11 A. M. May 17, 1927, and then publicly opened, for furnishing all labor and materials and performing all work for Nurses' Home and Officers' Quarters, including roads and walks at U. S. Veterans' Hospital No. 62, Augusta, Georgia. This work will include excavating, reinforced concrete, hollow tile, brickwork, cast stone, marble work, floor tile, mastic flooring, ironwork, steel sash, steel stairs, metal lathing, plastering, carpentry, insect screens, hardware, painting, glazing, plumbing, heating and electrical work, all as set forth on bid form. Bids will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and in making awards the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. At the discretion of the Director, drawings and specifications may be obtained upon application to the Construction Division, Room 791 Arlington Building, Washington, D. C. Deposit with application of a check or postal money order for \$25, payable to the TREASURER OF THE UNITED STATES, is required as security for safe return of the drawings and specifications within ten days after date of opening bids. **FRANK T. HINES**, Director. April 15, 1927.

Bids close May 3, 1927.

Bridges

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS
Baltimore, Md.

SEALED PROPOSALS for building two bridges as follows:

Baltimore County, Cont. B-82—One double-span reinforced concrete arch bridge on the Philadelphia Road over the Little Gunpowder River, consisting of two spans, each 45 ft. 0 in., with a clear roadway of 24 ft. 0 in., together with all the necessary fill, etc.

Harford County, Cont. H-54—One double-span steel and concrete girder bridge on the Philadelphia Road over Winters Run, consisting of two spans, each 60 ft. 0 in., with a clear roadway of 24 ft. 0 in., together with all the approaches, etc.

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 3rd day of May, 1927, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 18th day of April, 1927.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

RATE: 35 cents per line per insertion.

PUBLICATION DAY: Thursday.

FORMS CLOSE: 4 P. M. Monday.

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THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

Bids close May 5, 1927.

Treasury Department, Bureau of Engraving and Printing, Washington, D. C., March 31, 1927. Sealed proposals are invited for the purchase of pulp, ink scrapings and postage stamp and internal revenue paper trimmings, and for the cleaning of windows during the fiscal year beginning July 1, 1927. Proposals to be received not later than 2 P. M. Thursday, May 5, 1927. Blank forms with specifications for proposals for the several schedules and further information will be furnished on application to **A. W. HALL**, Director.

Bids close May 11, 1927.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C. April 5, 1927. **SEALED BIDS** will be opened in this office at 3 P. M. May 11, 1927, for the construction of addition to Administration Building, etc., at the U. S. Marine Hospital, Carville, La. Drawings and specifications may be obtained from **H. G. Richey**, District Engineer, Custom-house, New Orleans, La., or at this office, in the discretion of the Supervising Architect. **Jas. A. Wetmore**, Acting Supervising Architect.

Bids close May 16, 1927.

Highway Construction

Inverness, Fla.

Sealed proposals addressed to Board of County Commissioners, Citrus County, Fla. and marked "Sealed Proposal" will be received until 2 o'clock P. M. May 16, 1927, to be opened immediately thereafter, for furnishing material, equipment and labor, and constructing certain work approximately as follows: Reconstructing approximately 11.8 miles of highway, consisting of limestone base sixteen feet wide and to be two course surface treated and including necessary clearing and grubbing, grading, drainage and appurtenances.

Each bid is to be on blank forms furnished by the Clerk, and is to be accompanied by a certified check, or bid bond issued through a local agency, by a bonding company qualified to do business in the State, made payable to Citrus County for \$5000.00, or for 5 per cent of bid on any portion less than the whole.

Certified check or bid bond will be forfeited as liquidated damage if contract and bond are not executed within the time specified, if proposal is accepted, otherwise will be returned within ten days.

The right is reserved to reject any and all bids.

Plans and specifications may be seen at the office of the Clerk and the offices of the Engineers, after May 10, and specifications may be obtained from the Clerk upon payment of \$2.00 to cover cost of reproduction.

C. E. CONNOR, Clerk.

E. V. CAMP AND ASSOCIATES, INC., Consulting, Supervising and Testing Engrs., Atlanta, Ga.; Bartow, Fla.; Jacksonville, Fla.

Bids close May 3, 1927.

Highway Construction

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building five sections of State Highway as follows:

Prince George's County, Cont. P-70—One section of State Highway along the Southern Maryland Boulevard from the end of Cont. P-66 to Wells Corner, a distance of 6.4 miles. (Concrete.)

Frederick County, Cont. F-16A—One section of State Highway between Thurmont and Emmitsburg for a distance of 7.5 miles. (Cone. Shoulders.)

Baltimore County, Cont. B-33B—One section of State Highway along the Reisterstown Road between Tobin and Reisterstown for a distance of 5.69 miles. (Concrete Shoulders.)

Baltimore County, Cont. B-20D—One section of State Highway along the York Road between Pine Hill and Parkton, a distance of 5.82 miles. (Concrete Shoulders.)

Anne Arundel County, Cont. AB-1C—One section of State Highway along the Annapolis Boulevard between Revell and Annapolis, a distance of 4.13 miles. (Concrete Shoulders.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 3rd day of May, 1927, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 18th day of April, 1927.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close May 4, 1927.

Street Improvements

Melbourne, Fla., April 18, 1927.

Sealed proposals will be received by the City Commission of the City of Melbourne, Florida, up to 2 P. M. Wednesday, May 4, 1927, for furnishing labor and material for the construction of the herein named improvements, to-wit:

8,214 square feet Portland Cement Concrete Sidewalks.

1,527 lineal feet Portland Cement, Combined Curb and Gutter.

19,150 square yards Water-Bound Base, Bituminous Top Street Paving.

Bids must be accompanied by a certified check, a cashier's check or bidder's bond in the amount of at least \$2900, made payable to the City Commission. A bond in the amount of \$30,000, conditional upon the carrying out of said contract, will be required of the successful bidder.

Plans, specifications and blank proposals may be obtained at the office of the City Clerk upon payment of deposit of \$10 on each set, to be refunded upon return of said plans and specifications.

The City Commission reserves the right to reject any or all bids and to award the contract in the best interests of the City of Melbourne.

W. K. SEITZ, City Manager.

C. E. SHULL, City Clerk.

A. W. HOWARD, City Engineer.

Bids close May 12, 1927.

Virginia Highway Work

Richmond, Va.

The Commission will receive bids on Project S-79—Chappawamsic Creek Bridge. Details obtainable on request.

Bids close May 3, 1927.

Court Street Construction

Danville, Va.

Sealed proposals will be received by the City Engineer of the City of Danville, Va., Room No. 313 Masonic Temple Building, until noon May 3, 1927, for the construction of Court Street, from Patton to Loyal Sts., containing the following approximate quantities:

6000 cubic yards of excavation.
3300 square yards asphaltic concrete on six-inch concrete base.
380 square yards 1-2-4 concrete sidewalk.
1000 lin. ft. of 30-inch combination curb and gutter.
150 lin. ft. of concrete header.
155 cubic yards 1-3-6 concrete retaining wall.

900 lin. ft. of 8-inch Sanitary Sewer.
Each proposal must be accompanied by a certified check, made payable to City of Danville, Va., in the sum of Five Hundred Dollars, the said check to be held as good faith in the proposal submitted.

Plans and specifications can be seen at the office of the City Engineer at Room No. 313, Masonic Temple Building.

The Committee of Public Works reserves the right to reject any and all proposals.

C. L. SCOTT, JR.,
City Engineer.

April 19, 1927.
Danville, Va.

Bids close May 17, 1927.

Storm and Sanitary Sewers

Fort Lauderdale, Fla.

Sealed proposals for furnishing material and constructing Storm and Sanitary Sewers for the City of Fort Lauderdale, Florida, will be received by the Mayor and Board of Commissioners at the City Manager's office until 1 o'clock P. M. on the 17th day of May, 1927.

The amount of the work will be approximately as listed below:

STORM SEWERS.

Approximately 7 miles of various sizes, ranging from 12 inches to 54 inches, circular, and a concrete box sewer 24 inches x 48 inches, together with the necessary manholes, catch basins and other appurtenances.

SANITARY SEWERS.

Approximately 30 miles of various sizes, ranging from 8 inches to 18 inches, circular, together with the necessary Manholes, Flush Tanks, House Connections and other appurtenances.

Bids are asked for on the following types of material: Vitrified, Concrete, Reinforced Concrete, Cast Iron, Universal Cast Iron and Segmental Block Construction. Proposals will be received on sections or on the entire work.

Each proposal must be accompanied by a certified check, payable to the City of Fort Lauderdale, Florida, to an amount equal to five (5%) per cent of the bid as a guarantee that the contract will be entered into if awarded. Bidder's bonds will not be accepted. A bond in the full amount of the contract price will be required. Payments will be made in cash on monthly estimates.

Plans and specifications are on file in the office of the City Manager at Fort Lauderdale, Florida, and with Solomon, Norcross & Keis, Consulting Engineers, Fort Lauderdale, Florida.

Bidders may obtain copies from the Engineers by enclosing certified check for twenty-five dollars (\$25), payable to the City of Fort Lauderdale. If blueprints are desired, they may be had at the cost of printing. If the plans, specifications and blueprints are returned within thirty (30) days after opening bids, the check for twenty-five dollars (\$25) will be returned.

B. J. HORNE, City Manager.
SOLOMON, NORCROSS & KEIS,
Consulting Engineers,
Fort Lauderdale, Florida.

Bids close May 10, 1927.

Water-Works Improvements

Farmville, Va.

Sealed proposals addressed to the Mayor and Council of the Town of Farmville, Virginia, will be received by the City Manager up to 12 o'clock noon on Tuesday, the 10th day of May, 1927, for Water-Works Improvements.

The work will embrace the furnishing of materials and labor for the construction of the following:

One 500,000-gallon Steel Stand Pipe.
4400 feet of 12-inch Cast-Iron Bell and Spigot Pipe, with necessary fire hydrants and valves.

750-gallon-per-minute motor-driven Centrifugal Pump.

1820 feet of Terra Cotta or Concrete Raw-Water Intake Line.

30,000-gallon Reinforced Concrete Wash Water Tank, together with the necessary connections.

Plans and Specifications are on file with the City Manager, and blank forms of Proposal may be obtained from the Engineer without charge.

A full set of plans may be obtained from the Engineer upon the payment of \$5.00, which will be returned only to those submitting a bona fide bid for doing the work.

Certified check for five (5%) per cent of the amount bid for such items for which a proposal is made must accompany all proposals.

Bids will be opened by the City Manager in the presence of those interested and submitted to Council for final action. The Council reserves the right to reject any or all bids.

By order of the Mayor and Council.

R. B. CRALLE,
City Manager.

WM. M. PIATT, Engineer,
Durham, N. C.

Bids close May 6, 1927.

Sewerage Improvements

Cherryville, N. C.

Sealed proposals will be received by the Mayor and Board of Commissioners at Cherryville, North Carolina, until 11 o'clock A. M. on the 6th day of May, 1927, at the office of the Mayor, at which time all proposals will be publicly opened and read, for furnishing materials, labor, tools and equipment to complete such contracts as may be entered into for the construction of Sewerage Improvements, consisting of the following complete in place:

18,000 lin. ft. 8-in. V. C. or Conc. Sewer.
8,000 lin. ft. 10-in. V. C. or Conc. Sewer.
2,000 lin. ft. 12-in. V. C. or Conc. Sewer.
2 Imhoff Tanks.
3 Dosing Tanks.

11 Sand Filler Beds, with necessary appurtenances.

Plans and specifications will be on file at the office of the City Clerk, Cherryville, North Carolina, and at the office of the Engineers, and will be mailed upon application, accompanied by a check for \$10, which will be returned to bona fide bidders.

Each bid must be accompanied by a certified check to the amount of 5% of the amount bid, and not less than \$250, payable to the Treasurer of Cherryville, North Carolina, without recourse.

All bids must be placed in a sealed envelope and endorsed on the outside "PROPOSAL FOR SEWERAGE IMPROVEMENTS." The town prefers to let the entire work in one contract, but reserves the right to waive technicalities and let the work in parts to separate bidders, or let such parts of the work as is considered to be the best interest of the town, and reserves the right to reject any or all bids.

Contractors are cautioned to examine the plans and specifications thoroughly, form of contract, bond and conditions under which the work will be done before bidding.

Contractors must comply with the act to regulate the practice of General Contracting as ratified by the General Assembly March 10, 1925.

F. U. MAUNEY, Mayor.
T. J. MOSTELLER, Clerk.

THE CAROLINA ENGINEERING CO.,
Engineers.

917-919 Johnston Building,
Charlotte, North Carolina.
G. H. BISHOP, Consulting Engineer.

Bids close May 24, 1927.

Storm Sewers

Birmingham, Ala.

Sealed proposals will be received by the undersigned until 10 o'clock A. M., Tuesday, May 24, 1927, for the construction of certain storm sewers in the Graymont Section of the City of Birmingham, authorized under Improvement Ordinance No. 782-D, said storm sewers to range in size from fifteen (15) inches to seventy-two (72) inches in diameter, also reinforced-concrete box sewers, together with the necessary manholes, catch basins and other appurtenances thereto, estimate of cost of said work, One Hundred Eighty-five Thousand (\$185,000.00) Dollars.

Specifications may be obtained and plans examined at this Office. The right is reserved to reject any or all proposals.

A. J. HAWKINS,
City Engineer.

Bids close May 5, 1927.

Street Lighting and Fire Alarm Systems

Plant City, Fla.

Sealed proposals for furnishing materials and installation of Ornamental Street Lighting System and Fire Alarm System will be received by the Board of Public Works at the office of the City Clerk of Plant City, Florida, until 10 A. M. May 5, 1927, at which time they will be opened and read in public.

The Street Lighting System will comprise approximately 130 ornamental lighting standards with the necessary fixtures, parkway cable and other materials necessary for complete installation. The Fire Alarm System will comprise complete plant for a four-circuit switchboard, public alarm and approximately 20 alarm boxes, with the necessary parkway cable, weather-proof wire and other materials necessary for complete installation.

Plans and specifications may be seen at the Engineers' office at Plant City after April 22, and copies may be had by prospective bidders upon filing a deposit of \$10, one-half of which will be refunded to bona fide bidders upon return of the plans and specifications in good order.

A certified check (no bid bonds) to the amount of 5% of the total bid, and in no instance less than \$500, must accompany each proposal as an evidence of good faith, which will be refunded to unsuccessful bidders upon rejection of their bids, and the successful bidder must furnish acceptable surety execution bond in the amount of 50% of the amount of the contract.

The right is reserved to reject any or all bids, and to award the materials and construction as may appear to be to the best interest of the City of Plant City.

By order of the Board of Public Works.

A. SCHNEIDER, Chairman.

W. H. DURRANCE, City Clerk.

Engineers.
THE BISHOP ENGINEERING CO.,
Orlando, Fla.; Plant City, Fla.

Bids close May 19, 1927.

Equipment for Coal and Material Handling Plant

Mobile, Ala.

Sealed proposals will be received by the Alabama State Docks Commission at their office, second floor, State Office Building, Mobile, Alabama, until 10 A. M. May 19, 1927, and then publicly opened, for furnishing, delivering and erection the equipment for a coal and material handling plant.

A deposit of Twenty Thousand Dollars (\$20,000) in cash or certified check, or in lieu thereof a bidder's bond for like amount with an approved company is required with each proposal.

Specifications and proposal forms may be obtained from the office of the Purchasing Agent, second floor, State Office Building, Mobile, Ala.

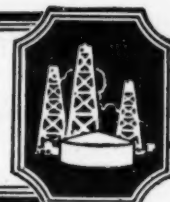
A bond to the amount of 50% of the sum bid is required with contract.

The right is reserved to accept any or reject any or all bids and to waive informalities.

ALABAMA STATE DOCKS COMMISSION,
WILLIAM L. SIBERT, Chairman.



CLASSIFIED OPPORTUNITIES



MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

LARGE TRACT 150 Million Timber, 100 Million Tons Iron Ore, large, modern charcoal Iron Furnace; chemical plant, business block, own town, Railroad, near Muscle Shoals; unheard-of Bargain. Particulars to responsible party.

H. H. HANSEN, Macon, Mississippi.

PATENTED SILVER MINE. 18 acres and four-acre mill site, also 40-acre Placer Gold mine in Elko, Nev., to lease to responsible parties or company to work on royalty basis. Silver runs as high as 230 ounces ton and gold claims pan 25 cents to \$5.00 per pan. Plenty water available. Owner, E. L. Lester, Box 531, Houston, Texas.

FOR SALE.

50,000 acres of land southwest of Alexandria, Louisiana, a distance of 12 miles Rapides Parish. Am prepared to sell this land as a unit at a very low figure, with or without the different buildings; a number of running creeks run through this tract; ready-made proposition for certain types of industries, such as a colonization project, a textile plant or the basis for a program reforestation. Certain tracts of this acreage have a fair stand of second-growth pine and hardwood; well served by gravel highway and railroad facilities. No better proposition for stock ranch, as we have the native grasses, which will keep cattle fat ten months in the year. Our winter season is not severe on cattle; in fact, we don't have any winter. It's south of all the big oil fields, ranging in distance of 35 to 50 miles, and we have several wells that have commenced to drill as close as 15 to 18 miles. Louisiana is underlaid with some kind of minerals all over this State.

E. M. SHUMAKE, Real Estate,
Box No. 267, Alexandria, Louisiana.

MANGANESE

MANGANESE, high grade of ore on R. R. and River. Has yielded 6000 tons the acre. Situated in Rockingham Co., Va. For sale or lease with option to buy.

Address:

A. L. HARNSBERGER,
Fairfax, Va.

COAL LANDS AND MINES

THE STRIKE in the Union Coal Fields means very profitable business for West Virginia. I have several very desirable coal-mining properties for sale in the Fairmont District.

G. B. HARTLEY,
Fairmont, W. Va.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

A WORD TO THE WISE!

Take advantage of buyers' market in Florida while owners of real estate need money. We offer business and home property, groves and river fronts.

GOODWIN & BAKER,
Fort Pierce, Florida.

FLORIDA produces the menu for America's table, from fruits to nuts; heaviest crops produced in the winter months, bringing highest prices in the frozen Northern markets. Finest winter climate in the United States. Approximately \$12,000,000 in our State Treasury; no bonded indebtedness; no State income or inheritance taxes, ever. We have a factory site, an investment, a home, grove or farm for you. Send today for booklet and 1927 list. Tampa-West Coast Realty Co. (Inc.), Opp. Postoffice "Since Before the War," Tampa, Florida.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. *When the advertisement contains a number of long words proper allowance should be made.* Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisements accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

THE BEST BUY IN FLORIDA. 12,000 acres high marsh land; can be drained for about \$10 per acre. Good for fig orchards, sugar cane, potatoes, willow for furniture; \$5 per acre net, one-fourth cash. SADLER, Box 484, Fernandina, Fla.

HERNANDO COUNTY, MOUNTAINS OF FLORIDA.

Finest dairy, truck and fruit ranch to be sold to settle estate.

Free of encumbrance, for sale or exchange for improved city property as a whole or part payment. 350 acres highest state cultivation, fenced and cross-fenced; 200 acres muck land, ditched and drained. Ten wells for drainage and irrigation. Beautiful 30-acre lake, 2 dwellings, barns, sheds and outbuildings. 4 concrete silos, stock pens, dipping vats, 10-acre tangerine grove, 5 acres grapes, 60 acres corn, 30 acres oats, 50 Jersey cattle, cow ponies, horses and mules. Farming implements of every description.

Seaboard Railroad station adjoins ranch. Paved roads to all sections. Licensed brokers protected. For particulars address:

WM. PANNILL,
612 First National Bank Bldg.,
Tampa, Florida.

MISSISSIPPI

MISSISSIPPI GULF COAST.

120 acres fronting three-fourths of a mile on public road; 7-room residence, large number of cow stalls, outbuildings, etc. Pecans, peaches and grapes; extra fine location; \$200 per acres, 10 years or more to pay. Ask for booklet.

B. C. COX & SON,
Gulfport, Mississippi.

NORTH CAROLINA

If interested

FOR HOME OR FOR INVESTMENT

In the great and rapidly developing STATE OF NORTH CAROLINA, especially in its leading city, Charlotte, or in a Southern Cotton Mill or Southern Mill Stocks, write to

F. C. ABBOTT & CO.,
Realtors and Investment Bankers.
Nearly thirty years in Charlotte.

TEXAS

TEXAS "WINTER GARDEN" LANDS.

8000 acres of virgin soil in the fertile valley of the Nueces River, Dimmit County, Texas, are being subdivided, developed and offered to the public in 20 and 40 acre tracts, **CLEARED, GRUBBED, PLOWED and WATERED.** These lands especially adapted for the growing of **CITRUS FRUITS, WINTER VEGETABLES.** Staple Crops—a harvest each month in the year. Fine irrigation system. Write TODAY for literature and prices.

BERMUDA LANDS COMPANY,
Houston Building,
San Antonio, Texas.

FARM, FRUIT AND TRUCK LANDS

TEXAS

I HAVE FOR SALE a 15,700-acre tract of land within 40 miles of deep water transportation. This is a rich, deep, chocolate loam especially adapted for truck gardening and citrus fruits, with abundance of pure water for irrigation and home consumption, and is one of the finest bodies of land in Southwest Texas.

There is a sixteen-room house on it suitable for use as a club house in selling the property, which extends to within two and a half miles of the town of Orange Grove, Tex., on the Southern Pacific Railroad; there is a switch on the property and a hard-surfaced road through it. Buyers who are interested write or wire S. A. Guy, 416 Central Trust Building, San Antonio, Texas. Phone Crockett 2797.

BUSINESS AND INVESTMENT PROPERTIES

OCEAN FRONT, between Jacksonville and St. Augustine, 800 ft. x 1810 ft., \$16 per ft. McLAUGHLIN, Realtor, St. Augustine.

FOR SALE IN ROANOKE, VIRGINIA. 2-story brick building, mill construction, with dry cement basement, elevator, 40x90-ft. on private siding; lot 60x135 ft. adjoining; suitable for mill, warehouse or small factory. Price, \$25,000 on terms.

I also have for sale a brick and steel apartment house paying 10% net after fixed charges, located on 100-ft. corner lot, where land values are growing. Price, \$150,000 on terms.

A complete listing at all times of Investment, Industrial and Business properties, not rentals, in and around Roanoke.

OSCAR A. WALL (with Realtor),
Box 497, Roanoke, Va.

BUSINESS OPPORTUNITIES

MANUFACTURING lumber mill. In full operation. Large acreage of timber. No incumbrance. Sell or trade for other property. \$60,000. Tropical Realty Co., 308 Cass St., Tampa, Fla.

COCA-COLA BOTTLING PLANT located in mid-western city. Direct franchise. Modern plant. Surfaced roads. Will bottle 5000 gallons Coca-Cola and gross 60,000 cases this year. Price \$35,000. Address No. 6722, care Manufacturers Record.

BUSINESS OPPORTUNITY—Will sell retail lumber yard in one of North Carolina's largest cities. Splendid prospects. Year and six months old. Business last year \$180,000. Reasons for selling, poor health. Address No. 6726, care of Manufacturers Record, Baltimore, Md.

LIME AND STONE PLANT FOR SALE

41 acres of land on Southern Railway in Rockingham County, Virginia. Ten tons daily capacity; equipped with very latest machinery. A proposition of this kind seldom comes on the market. Information on request.

O. M. MASTERS, Realtor,
Harrisonburg, Va.

FOR SALE

Lumber, coal and mason material yard doing a business of over \$300,000 per year. Price \$85,000, which includes about 7 acres of land right on the R. R. and on a very public road, together with stock amounting to \$50,000 to \$60,000. Terms. Have other properties as high as \$500,000 which will be submitted upon request. F. C. DUNN, 164 Main St., Hackensack, N. J.

FACTORY SITES

MANUFACTURING SITES.

LABOR—ELECTRIC POWER—COTTON. Tax exemption, abundant supply pure water; temperature—Winter 55, Summer 81; elevation 350 feet, low living costs. America's greatest diversified area. **CHAMBER OF COMMERCE, OCILLA, GA.**

FLORENCE, ALABAMA—1½ acres, adjoining factories in operation. Fronts improved city street. Shipping facilities, canal and railway. Has brick building 80x120 and small office. In sight of Wilson Dam. Owners selling direct. Address No. 6731, care Manufacturers Record.

TAMPA, FLORIDA—the logical distributing point. HARRIS TERMINALS—fully equipped with railroad tracks on both the seaboard and Atlantic Coast Line railroads. We solicit your inquiries for WAREHOUSE and FACTORY sites. Prices and terms reasonable. HARRIS REALTY CO., Realtors, 105 W. Cass St., P. O. Box 585, Tampa, Florida.

WASHINGTON, D. C. Industrial zone, 2 miles Southeast Capitol Building, 596 feet adjacent B. & O. R. R., 210 feet fronting Summer Road, 82,347 sq. ft. at 30c per sq. ft. 10 p. c. off for cash. Concrete roads, sewer and water connections. Improving prospects. River wharfage 1½ miles South of Capitol Building may be arranged.

W. H. BRYSON,
1017 Clinton Street, Philadelphia, Pa.

FACTORY SITE FOR SALE—Tract containing 200 acres, with large, clear springs having an output of 3 to 5 million gallons of water daily. Within one-half mile of Central of Georgia Railroad, Chattanooga Division, 4 miles north of Cedartown, Georgia, 9 miles south of Lindale, Georgia, on main highway. All new industries exempt from all taxation for period of five years.

WM. H. TRAWICK, Cedartown, Ga.

INDUSTRIES WANTED

WE WANT MORE INDUSTRIES.

We have abundant timber, plenty cotton, large oil and gas field, cheap power and fuel. What do you want to manufacture? Let's get together; we will make it interesting for you. For particulars write Max A. Shilling, El Dorado, Ark.

INDUSTRIES WANTED—Live town in Southside, Virginia. Excellent climate, fine water, three accredited schools; cheap labor, ample power, low taxes, splendid shipping facilities. Good factory sites on trunk-line railroad. Address Chamber of Commerce, Blackstone, Va.

MR. MANUFACTURER:

Before deciding definitely on a Southern location don't fail to investigate Altavista. No other young and growing city in Virginia can offer such advantages as our good town.

Virginia City Basic Freight Rate. Ideal climate. Abundance of labor and strikes unknown here. Free Manufacturing Sites.

For information apply to **ALTAVISTA CHAMBER OF COMMERCE, Altavista, Va.**

INDUSTRIAL PLANTS

NORTH CAROLINA—For Sale, a well-established and profitable woodworking plant at Asheville, North Carolina, equipped to manufacture sash, doors and all kinds of interior trim. Owing to death of owner this property can be purchased at a bargain.

S. G. BERNARD, ASHEVILLE, N. C.

NORTH CAROLINA—For Sale, a large core plant and fifty acres of land at Andrews, N. C., in the heart of the virgin hardwood timber remaining in North Carolina. This property can be purchased at a bargain.

S. G. BERNARD, ASHEVILLE, N. C.

INDUSTRIAL PLANTS

FOR SALE—Brick plant electrically equipped, capacity 20,000 daily; 25 acres fine clay. Situated in one of three industrial towns, paved highway connecting, 40,000 population; orders now on hand for yearly output. Good reasons for selling. Address No. 6729, care Manufacturers Record.

WATER POWER—125 h. p. (mill burned recently) with water wheels in place, Southern railroad siding. Large owner's home, all modern improvements. Superintendent's home, brick four-car garage with apartment above, other buildings, fourteen acres all fenced, including two-acre apple orchard. Near large electric power supply. New Market, Virginia. Good labor, ideal for moderate size industry or branch plant. Big bargain for quick action. Inspection invited. American Industries Engineering Co., 140 Cedar St., New York City.

PATENTS

FOR SALE OR ROYALTY—Patent on a mechanical box, a self-righting automaton on a spherical base; no attaching; wood construction, easily made. Probable sale price \$8 to \$10. E. E. FOSTER, Box 763, Montgomery, Ala.

PATENT ATTORNEYS

PATENTS—Booklet free. Highest references. Best results. Promptness assured. WATSON E. COLEMAN, Patent Lawyer, 724 Ninth St., N. W., Washington, D. C.

PATENT-SENSE. "THE BOOK FOR INVENTORS AND MANUFACTURERS."

Free. Write **LACEY & LACEY, 735 F Street, Washington, D. C.**

PATENTS—TRADEMARKS—COPYRIGHTS Charlotte Office convenient to South. **PAUL B. EATON, Registered Patent Attorney, 406 Independence Building, Charlotte, N. C., and 903 Grant Place N. W., Washington, D. C.**

PATENTS—TRADEMARKS—COPYRIGHTS Write for our free Guide Books and "RECORD OF INVENTION BLANK" before disclosing invention. Send model or sketch and description of your invention for our inspection and instructions free. Terms reasonable. Highest references. **VICTOR J. EVANS & CO., 712 Ninth, Washington, D. C.**

INVENTORS—Send sketch or model of your invention for opinion concerning patentable nature and exact cost of applying for Patent. Book, "How to Obtain a Patent," sent free. Gives information on Patent procedure and tells what every inventor should know. Established 25 years. Chandler & Chandler, 412 Seventh St. N. W., Washington, D. C.

AGENCIES WANTED

MANUFACTURER or others desiring a representative in the State of Oklahoma please address No. 6716, care of Manufacturers Record, Baltimore, Md.

FLORIDA FACTORY AGENTS. Adding more men, need more lines. We cover State thoroughly; engineering and mercantile sales experts in charge of divisions. Largest display rooms in Florida. Our service and results will please you. Send data and make us prove it.

DONALDSON-AUFFORD AGENCY, 213 Shoreland Arcade, Miami, Fla. 1023 Lark St., Jacksonville, Fla.

SITUATIONS WANTED

BOND BUYER seeks connection with Municipal House as Traveling Buyer. Nine years' experience in Municipal Bonds. Keen judge of Municipalities. Highest references. Address No. 6727, care of Manufacturers Record, Baltimore, Md.

AUDITOR, Bookkeeper and Accountant, now employed, but desires responsible connection with some reliable establishment, preferably lumber or sawmill business, but any other considered. Extensive experience covering 25 years. Highest A-1 references. Permanent position desired. Address No. 6725, care of Manufacturers Record.

MEN WANTED

SALESMAN: To sell Leather Transmission Belting, experience necessary. Salary and commission, \$5000; drawing account to good man. Address No. 6723, care Manufacturers Record, Baltimore, Md.

ENGINEER in well-established concrete company. Now starting \$50,000 worth of work. Security, also house to live in, if desired; \$4000 to \$10,000 required. Drawing account or salary; references; write at once. **FICKLEN & CO., Bond Building, Washington, D. C.**

SALESMAN WANTED—Our proposition offers greater earning possibilities to the real salesman than is offered to him in most any other line. A credit and collection service with a bonded recovery obligation.

American Security Credit Company, General Offices, St. Louis, Mo.

WANTED—General Superintendent for heavy plate and structural shop, manufacturing heavy equipment for blast furnaces, steel plants and oil refineries, middle South location. Must be experienced in scheduling work, estimating, supervising purchases and shop organization to get results. Plant under general management of large engineering and contracting concern. An excellent future is assured a capable energetic man. Give full information and salary requirements. Replies confidential. Address No. 6730, care Manufacturers Record.

IF YOU ARE OPEN to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited. The undersigned provides a thoroughly organized service, of recognized standards and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements; your identity covered and present position protected. Established sixteen years. Send only name and address for details.

R. W. BIXBY, INC. 103 Downtown Bldg., Buffalo, New York.

CONTRACT WORK WANTED

MANUFACTURING PLANT, well equipped and located, wants something to manufacture, preferably heavy machinery. All facilities necessary, including engineering department, patent shop, foundry with a capacity for single castings in either gray iron or semi-steel up to twenty tons; well-equipped machine shop, erecting floors, etc. No. 6683, care of Manufacturers Record.

CROSS TIES FOR SALE

FOR SALE—150,000 Standard railroad cross ties made from dense long leaf yellow pine, both heart and sap, hewn and sawed. Also about 50,000 Cypress, and same amount hardwood to be delivered on dock at Tampa; delivery to be made at rate of 30,000 each month. **W. M. WORTHEN, 305 Franklin St., Tampa, Fla.**

MACHINERY AND SUPPLIES

FOR SALE—Boiler, made by Baldwin Locomotive Works. 125 horsepower, high-pressure fire box, in good condition with stack and fittings for stationary work. Wilmington Stave Corp., Wilmington, N. C.

SACRIFICE SALE—250 h. p., almost new water tube boiler, 200-lb. pressure, \$2000; Corliss direct connected 100 kw. a. c. generator, \$1200; 100-kw. a. c. generator, \$500; 7½ kw. d. c. generator, \$60. **A. G. Ensign, Hawarden, Iowa.**

ICE-MAKING AND REFRIGERATING MACHINERY—New and rebuilt. Our prices on new Waynesboro Refrigerating equipment, delivered and installed, very low. Buy direct from the manufacturer. All sizes. Get our prices on your requirements. **GEISER MANUFACTURING COMPANY, "Department E." Waynesboro, Pa.**

For Sale MACHINE SHOP

Beautiful proposition in Philadelphia, thoroughly modern. Main shop 80x225 with Niles 5-ton crane, 17' clearance. Also a modern 2-story building, heavily constructed, 65x210, with ceiling heights 14' and 16'. Blacksmith shop 65x130. Office building 40x225. Modern power plant. Extra yard space. Located in one of the best sections of the City.

Offered for sale at a reasonable price and on convenient terms.

CHESTER D. ROTTNER & CO.

N.E. cor. 15th & Locust Sts.
Philadelphia Pennsylvania



A Rare Business OPPORTUNITY

One of our Clients operates a very large and well equipped Manufacturing Plant.

They are prepared to Manufacture Complete or in part any Mechanical or Electrical Device, Appliance, or Equipment large or small in a High Grade manner.

This Plant is located within easy hauling distance from New York, in a small City where Labor and Wage Conditions are ideal for the Economical Production of High-Grade Products at a Low Cost.

Our Client has been in business successfully for over twenty-five years and today has Assets exceeding Two Millions of Dollars.

The management is Efficient and Dependable and their long experience permits them to figure on jobs that require Precision Methods and Precise Specifications and name Prices That Are Right.

Their Equipment embraces Com-

plete Modern Machinery of every kind usually found in a High-Class Manufacturing Plant.

Over five acres of floor space, with a Gray Iron Foundry, Pattern Shop, Drop Forging and Blacksmith Shop.

A Metal Stamping Department with Twenty Presses, Modern Automatic Screw Machine Equipment, Facilities for Nickel Plating, Tinning, Electric Welding, etc.

Paint Shop Equipment for Spraying, Dipping and Baking. Railroad Sidings for ten cars. Boxing, Crating and exceedingly large storage space is available.

In the interest of our Client we solicit the opportunity of figuring with Firms, Corporations or Individuals seeking Complete Manufacturing Facilities without making a Large Plant Investment.

H. R. VAN DEVENTER, Incorporated

Consulting Engineers and Sales Specialists

Patent Department Maintained

Tel. Van. 2669

342 Madison Ave.

New York City

TO BE OFFERED FOR SALE Pynetree Paper Company Gordon, Ga. PAPER AND PULP MILL

PULP MILL.—Consists of a one-unit pulp mill. (Sulphate.)

PAPER MILL.—Consists of—

1—Six-cylinder Downingtown 110" trim machine with sixty-one 42" diameter dryers.

1—60" trim Fourdrinier Machine 32 dryers.

1—Rogers Wet Machine 30 dryers.

All three machines fully equipped for operation.

Sufficient Beater & Jordon Capacity.

POWER.—Steam and Electric.

TENANT HOUSES.—Fifty-five for employees.

WOOD AND WATER.—In abundance.

HEALTHY LOCATION.—Climatic Conditions good. Can operate the year round.

LABOR.—Both in quality and quantity has always been available.

LOCALITY.—Located on main line Central of Georgia Railway Co.

TRACKAGE.—Ample track facilities on yard of mill.

SPRINKLERED RISK.

For further information write

JAS. N. McCRAW, Trustee

Gordon, Georgia

FOR LEASE OR SALE MODERN BRICK BUILDING Substantial Construction

1—75x100, three floors and concrete basement, equipped with sprinkler system and elevator; on paved street; railroad frontage on two sides; private loading platform at rear.

In a thriving city of 7500 population, abundance of native labor, municipal power plant with reliable power for sale; low operating cost for industries and favorable climatic conditions for uninterrupted operation.

For further detail write or wire.

**SECRETARY CHAMBER OF COMMERCE
MORRISTOWN TENNESSEE**

Steel Collapsible Barrel Patent for Lease on Small Royalty Basis

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1	2	General Electric	IK	1800
1	5	General Electric	IK	575
1	5	General Electric	KT	1200
1	7 1/2	General Electric	IK	860
2	10	General Electric	IK	900
1	10	General Electric	IK	1200
1	15	General Electric	IK	900
1	15	General Electric	KT	1800
1	20	General Electric	IK	900
1	20	General Electric	IK	1200
2	25	General Electric	IK	720
1	35	General Electric	IK	720
2	35	General Electric	IK	900
1	35	General Electric	IK	1200
1	50	General Electric	IK	1200
1	50	Lincoln	.....	1800
1	75	General Electric	KT	1165

Back Geared Alternating Current Induction Motors

3 Phase 60 Cycle 550 Volt

No.	Hp.	Make	Type	Motor Speed	Counter Shaft Speed
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1	5	General Electric	KT	1200	170
1	10	General Electric	IK	1200	170

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- 1—28"x12' Putnam belt drive heavy duty Q.C.
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- 1—20' Stockbridge back geared crank shaper motor drive.
- 1—20' Bement traveling head shaper belt drive.
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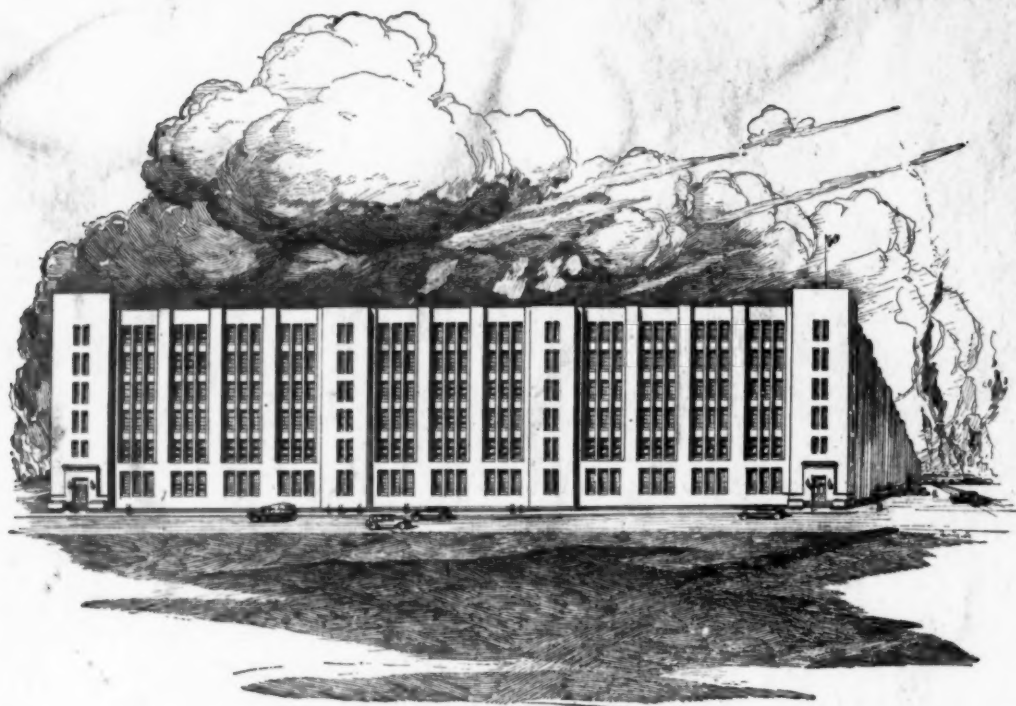
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